

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: U-18128

and hereby designates

NAME: CHANDLER & ASSOCIATES, INC.
ADDRESS: 1401 Denver Club Building
Denver, CO 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 17 South, Range 8 East, SLM
Section 20: All
Section 21: $W\frac{1}{2}$, SE
Emery County, Utah

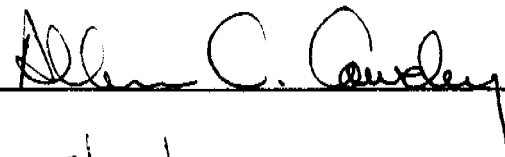
It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

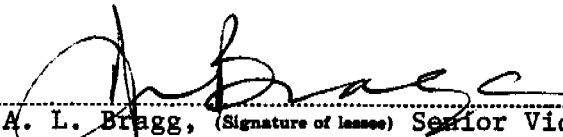
In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ATTEST:

TEXAS INTERNATIONAL PETROLEUM CORPORATION


5/17/82
(Date)


A. L. Bragg, (Signature of lessee) Senior Vice President
3535 N.W. 58th Street, Suite 300
Oklahoma City, Oklahoma 73112
(Address)



CHANDLER & ASSOCIATES, INC.

1401 DENVER CLUB BUILDING

DENVER, COLORADO 80202

303 629-6756

OIL AND GAS EXPLORATION AND PRODUCTION

May 19, 1982

Utah Oil & Gas Commission
4241 State Office Bldg.
Salt Lake City, Utah 84114
ATTN: Debbie Beauregard

RE: Application for Permit to Drill

Ferron Federal 16-20
SE SE Sec. 20-17S-8E

TIRCO-Federal 13-31
SW SW Sec. 31-17S-8E

Emery County, Utah

Dear Debbie;

Please find enclosed the Application for Permit to Drill, Plat, 10 Point Plan and NTL-6 for the above captioned wells.

If you have any further questions, please feel free to call.

Sincerely yours,

Marty L. Skagen

RECEIVED
Enclosure
MAY 24 1982

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR

1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

684' FEL: 770' FSL (SE SE)

At proposed prod. zone

SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 3 miles southwest of Huntington, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

684'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

16. NO. OF ACRES IN LEASE

1120

19. PROPOSED DEPTH

4100'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DP, RT, GR, etc.)

6507'

22. APPROX. DATE WORK WILL START*

June 1, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8-5/8"	24#	140'	125 sx
7-7/8"	5 1/2"	15.5#	4100'	150 sx

1. Drill to TD of 4100' (Dakota).
2. Run 5 1/2" casing if commercial production is indicated.
3. If dry hole, P&A as instructed by the U.S.G.S.
4. Well will be drilled with compressed air; tested open hole and mud up to run 5 1/2" casing.
5. Well control equipment will include double hydraulic System of 900 Series. A fillup line will be installed, equipment pressure mechanically checked daily while drilling.

Well Name: Ferron-Federal #16-20

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MININGDATE: 6/1/82BY: [Signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

David M. Burnett
W.P. Marx Jr.TITLE Petroleum EngineerDATE May 19, 1982

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



CHANDLER & ASSOCIATES, INC.

1401 DENVER CLUB BUILDING

DENVER, COLORADO 80202
OIL AND GAS EXPLORATION AND PRODUCTION

303 629-6756

May 19, 1982

U.S. Geological Survey
2000 Administration Bldg.
1740 West 1700 South
Salt Lake City, Utah 84104

Re: Application for Permit to Drill
Ferron-Federal 16-20
SE SE Sec. 20-17S-3E
Emery County, Utah

Gentlemen:

Enclosed is the additional information required for permitting the above well:

1. Surface Formation: Williams Fork
2. Geological Markers:

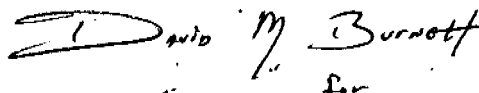
Emery	250'
Bluegate	1450'
Ferron	3150'
Mancos	3450'
Dakota	4000'
3. Producing Formation: Dakota
4. Casing Program: Surface - 8-5/8" 24#, Grade K-55 new
Production- 5 1/2" 15.5#, Grade K-55, new
5. Blowout Preventer: (a) Shaffer 10" 900 double hydraulic with
Payne closing unit. One set rams blind and
one set for 4" drill pipe; tested upon
installation and daily. (b) 10" 900 rotary
head for use while air or mist drilling.
Schematic diagram attached.
6. Circulating Medium: Well will be drilled with compressed air and
mist if required. Mud up will occur for
running casing only.
7. Auxiliary Equipment: (a) Drill String Floats will be used.
(b) Float will be used.
(c) No monitoring on mud system as air will
be used for drilling.
(d) Stabbing valve will be used for drill pipe.
8. Evaluation Program: No drill stem tests will be run due to air
drilling. No cores are anticipated. An IES

8. Evaluation Program Cont.: Should this evaluation program indicate commercial quantities of hydrocarbons are in place, casing will be set and completion attempted utilizing hydraulic fracturing techniques. The size of treatment, pounds of propanant, volume and type of fluid will be determined after log and formation analysis is completed.
9. Potential Hazards: No abnormal high pressure, temperatures or hydrogen sulfide gas should be encountered. productive zone is normal in pressure and gas analysis indicate no H₂S hazard.
10. Starting Date: The anticipated starting date is June 1, 1982 with operations being conducted for 10 days.

Please notify us if any additional information is necessary for the permitting of this well.

Yours truly,

CHANDLER & ASSOCIATES, INC.

David M. Burnett
for

W.P. Marx
Petroleum Engineer

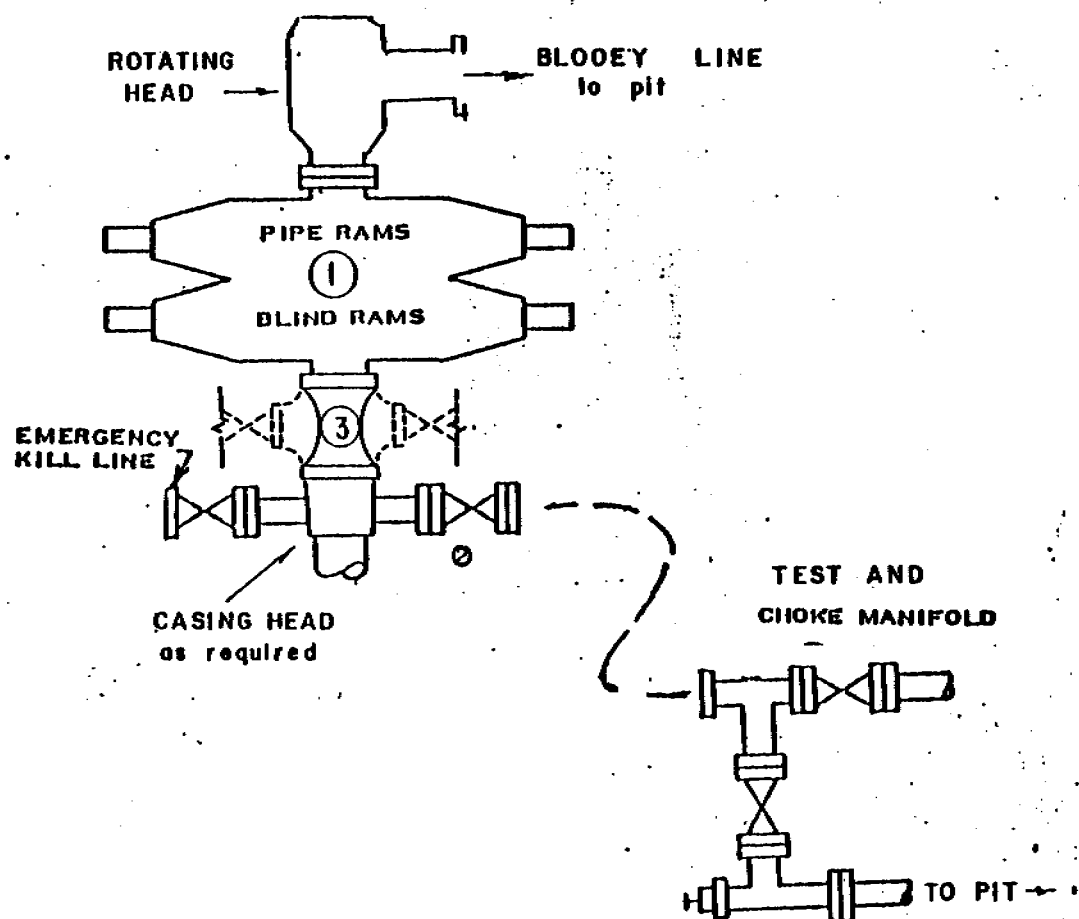
MS
Attachment

DOUBLE PREVENTER

FOR

AIR DRILLING

- ① SERIES 900 RAM-TYPE BOP
- ② 2" SERIES 900 VALVE
- ③ SERIES 900 DRILLING SPOOL



..... OPTIONAL EQUIPMENT

CHANDLER AND ASSOCIATES, INC.

3000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP
(SERIES 900 FLANGES OR BETTER)

Rev. 12/77

FIGURE NO.

CHANDLER & ASSOCIATES, INCORPORATED

13 Point Surface Use Plan

For

Well Location

Ferron Federal #16-20

Located In

Section 20, T17S, R8E, S.L.B. & M.

Emery County, Utah

CHANDLER & ASSOCIATES, INCORPORATED
Ferron Federal #16-20
Section 20, T17S, R8E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach CHANDLER & ASSOCIATES, INCORPORATED well location site Ferron Federal #16-20, located in the SE 1/4 SE 1/4 Section 20, T17S, R8E, S.L.B. & M. Emery County, Utah:

Proceed Northwesterly out of Huntington, Utah on the State Highway 31 - 3 miles to its junction with an existing dirt road to the Southwest; proceed along this road 2.8 miles to its junction with the proposed access road (to be discussed in Item #2).

The dirt road described above is an improve dirt road which was constructed out of the materials accumulated during its construction.

The roads are required for access during the drilling phase, completion phase, and production phase of this well will be maintained to insure proper travel both entering and leaving the area. This may require some minor grader work, for smoothing of the road bed and for snow removal.

There will be no culverts required along the existing roads described above.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed road leaves the existing improved dirt road in the NE 1/4 NE 1/4 Section 29, T17S, R8E, S.L.B. & M., and proceeds in a Northwesterly direction 600' + to the proposed location site in the SE 1/4 SE 1/4 Section 20, T17S, R8E, S.L.B. & M.

The proposed access road will be an 18' crown road (9' either side of the centerline with a drain ditch on the uphill side of the road which will handle any run-off from normal meteorological conditions that are prevalent to the area.

The grade along this road is relatively level with very few really rough spots. The maximum grade along this road will not exceed 8%.

There is one drainage encountered along this access road. There will be one culvert required. It will be placed according to specifications found in the Oil & Gas Surface Operations Manual.

If deemed necessary at the time of the onsite inspection turnouts will be constructed for safety purposes. These turnouts will be constructed according to the specifications found on page 25 of the Oil and Gas Surface Operating Standards Manual prepared by the B.L.M. and U.S.G.S.

There are no fences encountered along this proposed road. There will be no new gates or cattleguards required.

3. EXISTING WELLS

See Topographic Map "B".

There are no known producing wells, water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells for other resources located within in a one-mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

At the present time there are no other CHANDLER & ASSOCIATES, INCORPORATED production facilities, and gas gathering lines, tank batteries, oil gathering lines, injection lines or disposal lines within a one-mile radius. All existing facilities in the area are owned and operated by other companies.

In the event that production of this well is established, it will be contained within the location site until further plans can be submitted to the authorities for transporting of the produced materials.

The area used to contain the proposed production facilities will be built using native materials. If these materials are not acceptable then other arrangements will be made to acquire them from private sources. These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

Water to be used for the drilling of this well will be hauled by truck over the roads described in Items #1 and #2 from Huntington Creek which is approximately 3 miles East of the proposed location.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

All surface disturbance area is on B.L.M. lands.

7. METHODS OF HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals and produced fluids, etc.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

As stated in the aforementioned, non-flammable materials such as cuttings, salts, and drilling fluids, will be contained in the reserve pits.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and other reclamation activities are attempted.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

All produced water, if any will be disposed of according to NTL-2B requirements.

All garbage and other waste material will be contained in a trash basket made of small mesh wire and will be taken to the nearest sanitary landfill for disposal upon completion of the well.

A portable chemical toilet will be provided for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet). When all drilling and production activities have been completed, the location site and access road will be reshaped to the the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the pits shall be buried with a minimum of 4' of cover.

As mentioned in Item #7, the reserve pits will be completely fenced with wire and overhead flagging installed if there is oil in the pits, and then allowed to dry completely before covering. All items mentioned above will be completed within 90 days after commencement of restoration procedures.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10, and the Oil and Gas Surface Operating Standards Manual.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The area slopes from the Manti - Lasal Forest to the West to the Castle Valley to the East. The area is interlaced with numerous canyons ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

The soils in this semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish-gray clays (OL) to sandy soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi arid regions and consists of juniper and pinion forest as the primary flora with areas of sagebrush, rabbitbrush, greasewood, some grasses and cacti.

The fauna of the areas is sparse and consists predominantly of the mule deer, coyotes, bears, rabbits, and varieties of small ground squirrels and other types of rodents.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - (See Topographic Map "B").

Ferron Federal #16-20 is located on a sloping hillside area above a non-perennial drainage to the North and one to the South.

The ground slopes through this location site at approximately a 6.0% grade towards the Northwest.

The majority of the drainages in the area around this location are non-perennial and run in a Northeasterly direction into Huntington Creek.

The geologic structure of the area immediately surrounding the location site is of the Williams Fork Formation and consists of light brown sandy clay soil with some sandstone outcrops.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush and grasses.

CHANDLER & ASSOCIATES, INCORPORATED
Ferron Federal #16-20
Section 20, T17S, R8E, S.L.B. & M.

All lands disturbed by this location site and road are under B.L.M. jurisdiction.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site. It will be determined by an archaeologist whether there are any archaeological findings in the area. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Richard Veghte
Vice President and Engineer
1401 Denver Club Building
Denver, CO 80202

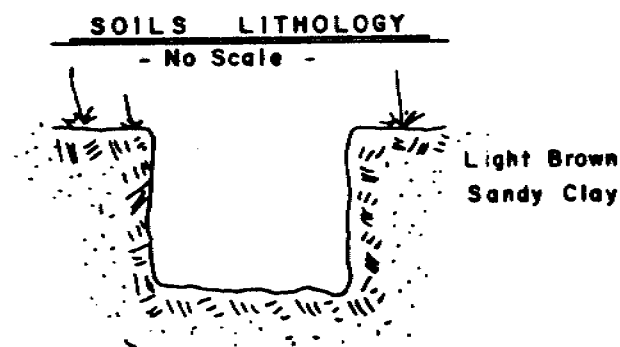
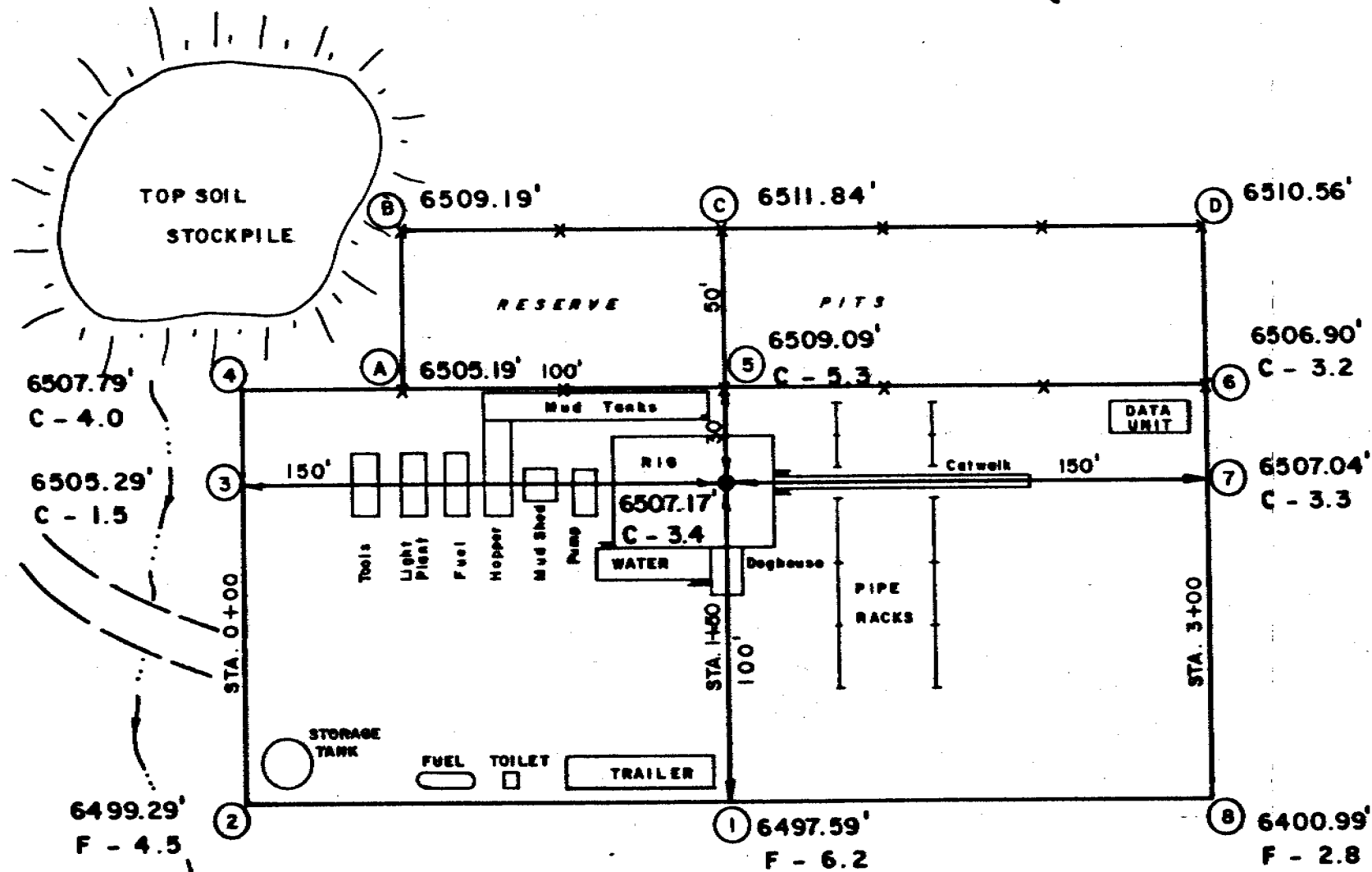
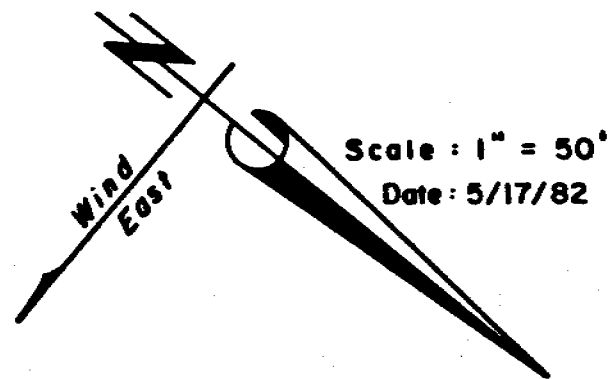
1-303-222-7911

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by CHANDLER & ASSOCIATES and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

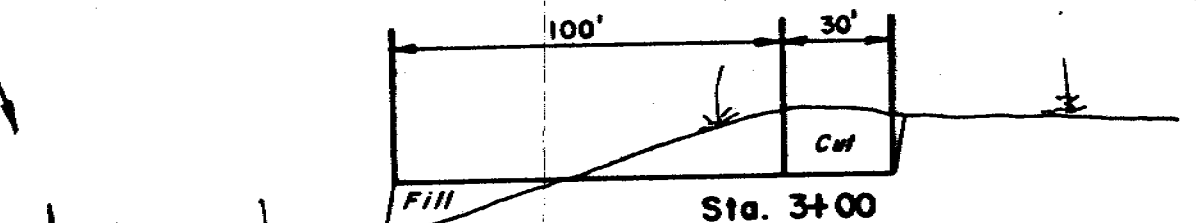
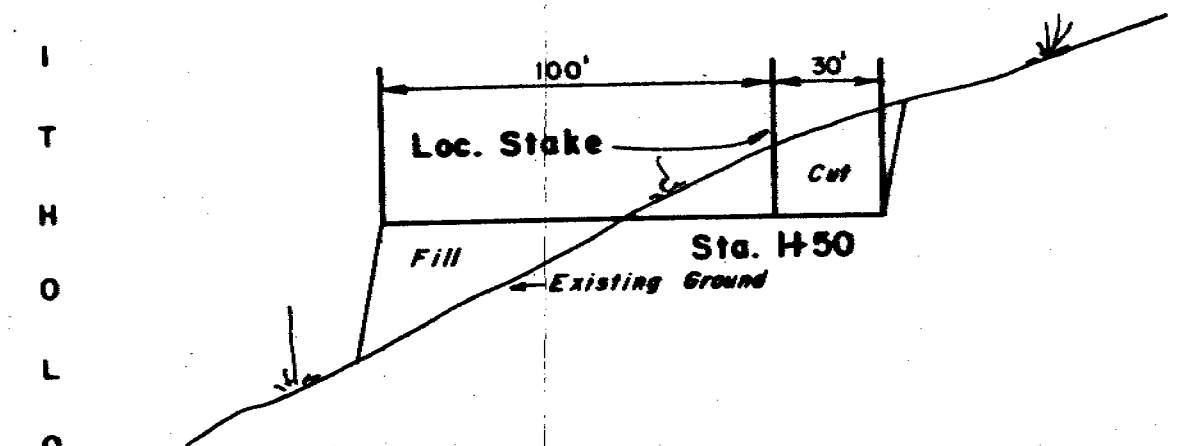
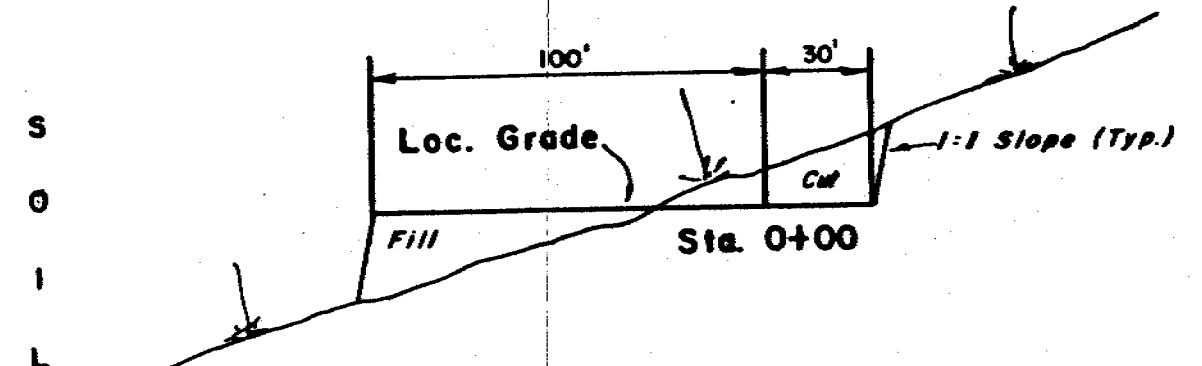
Date

Richard Veghte



CHANDLER & ASSOCIATES INC.

FERRON FED. #16-20



Scales
1" = 50'

APPROXIMATE YARDAGES

Cubic Yards Cut - 2,000
Cubic Yards Fill - 1,890

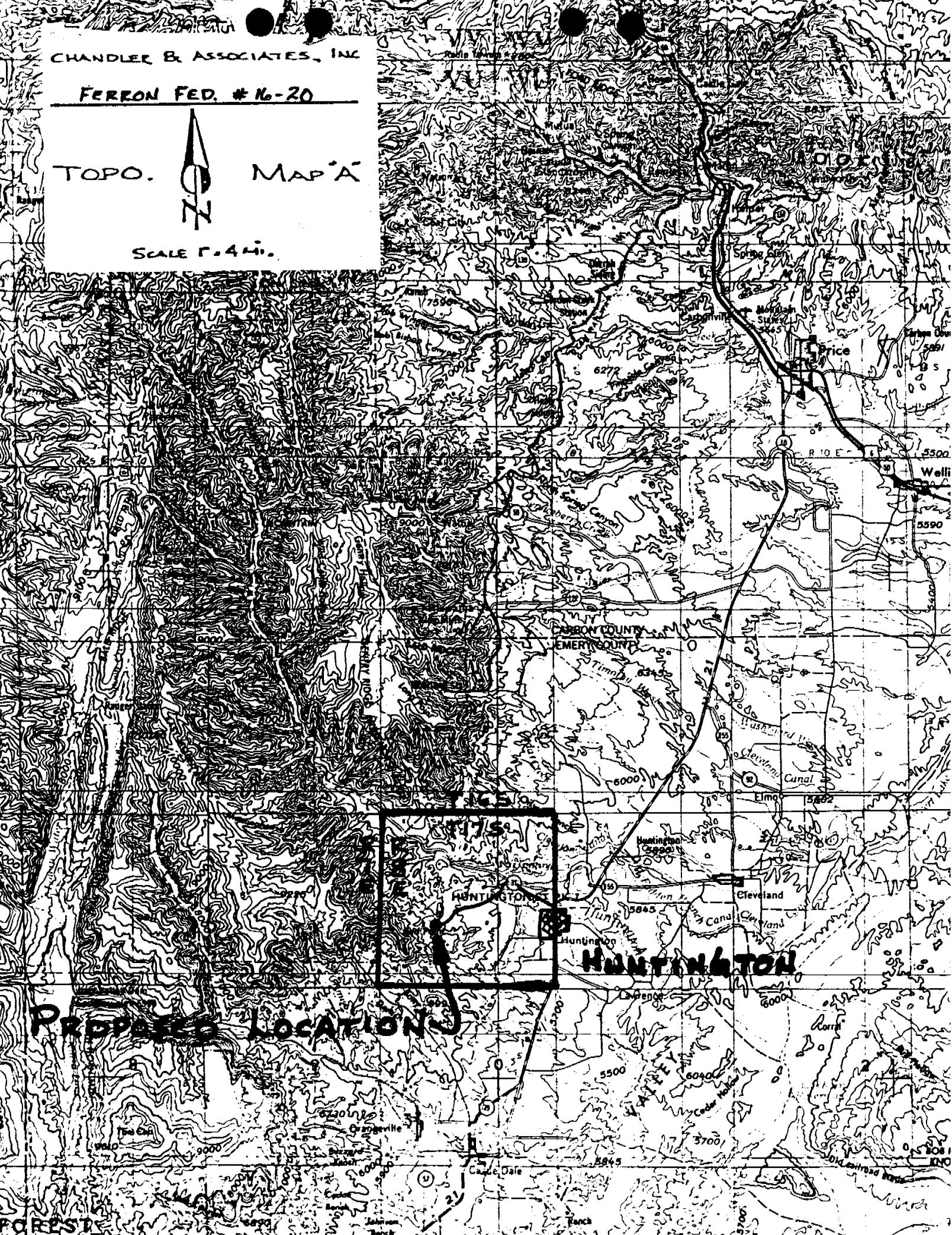
CHANDLER & ASSOCIATES, INC

FERRON FED. #16-20

TOPO.

MAP 'A'

SCALE 1:4 mi.



PREPARED LOCATION

HUNTINGTON

**** FILE NOTATIONS ****

DATE: May 26, 1982

OPERATOR: Chandler & Associates, Inc.

WELL NO: Ferron Federal #16-20

Location: Sec. 20 T. 17S R. 8E County: Emery

File Prepared: ☒

Entered on N.I.D: ☐

Card Indexed: ☐

Completion Sheet: ☐

API Number 43-015-30110

CHECKED BY:

Petroleum Engineer: _____

Director: _____

Administrative Aide: ☒ Rule C-3

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation ☒ FED

Plotted on Map ☒

Approval Letter Written ☐

Hot Line ☒

P.I. ☒

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: U-40422

and hereby designates

NAME: CHANDLER & ASSOCIATES, INC.
ADDRESS: 1401 Denver Club Building
Denver, CO 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 17 South, Range 8 East, SLM
Section 19: Lots 1 through 12, SE
Section 30: All
Section 31: All
containing 1904.08 acres, more or less
Emery County, Utah.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

TEXAS INTERNATIONAL PETROLEUM CORPORATION

By: [Signature]
(Signature of lessee)
A. L. Bragg, Senior Vice President

3535 N.W. 58th Street, Suite 300
Oklahoma City, Oklahoma 73112

(Address)

[Signature]
(Date)

RECEIVED
JUN 11 1982
DIVISION OF
OIL, GAS & MINING

U.S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: STAFF GEOLOGIST, OIL & GAS, UNIT AGREEMENT SECTION

TO: DISTRICT ENGINEER, OIL & GAS, SALT LAKE CITY, UT

SUBJECT: APD MINERAL EVALUATION REPORT

OPERATOR: CHANDLER & ASSOCIATES, INC.LOCATION: 684' FEL & 770' FSL SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 17S, R. 8E, S. 1MEMERY County, UTAHGr El. 6507'

1. **Stratigraphy:** The surface rocks are Mancos not Williams Fork (mesaverde) as reported by the operator. Alluvium may overlie Mancos at the drill site. The other logs appear reasonable.
2. **Fresh Water:**
Useable water could occur in the Emery and Ferron sands of the Mancos Shale. The operator plans to air drill this well.
3. **Leasable Minerals:**
The well site is stratigraphically below the important coals of the Mesaverde but the Emery and Ferron members of the Mancos Shale could contain coal beds.
4. **Potential Geologic Hazards:**
None anticipated by operator.
5. **Additional logs Needed:**
None
6. **References and Remarks:**
* Fresh water will probably not be found in this test but should be protected if encountered.

Signature: Ronald E. GunnisonDate: 5/28/82

June 2, 1982

Chandler & Associates, Inc.
1401 Denver Club Bldg.
Denver, Colorado 80202

RE: Well No. Ferron Federal 16-20
Sec. 20, T17S, R8E
Emery County

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-015-30110.

Sincerely,

DIVISION OF OIL, GAS AND MINING


Ronald J. Firth
Chief Petroleum Engineer

RJF:SC
cc: Minerals Management Service
Enclosure



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
San Rafael Resource Area
P. O. Drawer AB
Price, Utah 84501

IN REPLY REFER TO

3100
U-18128
(U-067)

June 2, 1982

Memorandum

To: Minerals Management Service, District Engineer, SLC, Utah

From: Area Manager, San Rafael

Subject: Additional Surface Management Requirements for APD's -
Chandler & Associates, Inc., Well No. 16-20
T. 17 S., R. 8 E., Section 20

We would like to have the following stipulations made part of the approved permit to drill.

1. The BLM, San Rafael Resource Area will be notified 48 hours before beginning any construction (phone: 801-637-4584; 748-2249 after hours).
2. Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS/USFS oil and gas brochure entitled "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of topsoil, rehabilitation, etc.
3. All trees and brush on well site location shall be stockpiled, and spread back over drill sites after drilling has been completed.
4. Topsoil will be removed to a depth of 6 inches (approximately 3,000 cubic yards) and shall be stockpiled. When drilling is completed, land will be returned to original contour before topsoil is respread.
5. Seeding shall take place from October 1 to April 30. Seeding shall be by drilling and harrowing and shall be repeated until vegetation is successfully established unless otherwise approved in writing by the Authorized Officer. The following seed mixture shall be used:

<u>Grass</u>	<u>Rate</u>
Intermediate wheatgrass	3 lbs. per acre
Crested wheatgrass	3 lbs. per acre
Western wheatgrass	3 lbs. per acre
Nomad alfalfa	3 lbs. per acre

Noted - G. Diwachak

JUN 2 1982
cc'd in Field

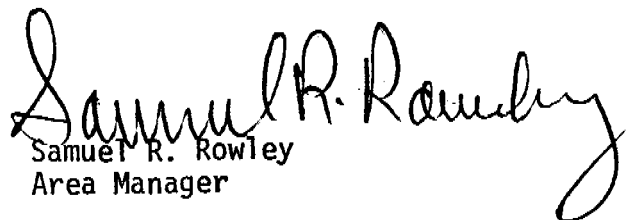
6. The access road shall be single lane not to exceed 24 feet (disturbed area) with 16 feet travel surface. If turn outs are needed for safe travel of this road, they shall be flagged by BLM personnel. Topsoil will be removed to a depth of 6 inches and shall be windrowed along side of proposed road and later used to rehabilitate roadway.
7. All vehicle travel will be confined to existing roads. Offroad travel is prohibited.
8. Trash will be contained in a wire cage or drum and hauled to an approved dump site. Burn pit will not be allowed.
9. A chemical toilet shall be provided at the drill site. Pit toilets will not be allowed.
10. Access roads to well site shall be rehabilitated as shown in the Surface Use Standards and as required by the surface management agency's Authorized Officer.
11. If well goes to production, the Holder shall submit a proposed operation and maintenance plan for the permanent road after consultation with the BLM Authorized Officer for applicable road standards.

An archaeological evaluation was done by Gordon and Kranzush, Inc. for Chandler and Associates, Inc. We have not received the report as yet but the archaeologist verbally advised us that no cultural resources were observed or recorded in the field and no National Register status sites will be affected by the drilling program. The cultural clearance is granted with the following stipulations:

1. All vehicular traffic, personnel movement, and construction be confined to the locations examined and to access roads leading into these locations.
2. All personnel refrain from collecting individual artifacts or from disturbing any cultural resources in the area.
3. Should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the construction area, the BLM will be notified immediately.

No threatened or endangered plant or animal species are known to inhabit the area.

No public land near the proposed drilling area is subject to the Wilderness Interim Management guidelines.


Samuel R. Rowley
Area Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-18128
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----
c. NAME OF OPERATOR CHANDLER & ASSOCIATES, INC.		7. UNIT AGREEMENT NAME SALT LAKE CITY, UTAH
d. ADDRESS OF OPERATOR 1401 Denver Club Bldg, Denver, Colorado 80202		8. FARM OR LEASE NAME Ferron-Federal
e. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 684' FEL: 770' FSL (SE SE)		9. WELL NO. 16-20
At proposed prod. zone SAME		10. FIELD AND POOL, OR WILDCAT Wildcat
f. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 3 miles southwest of Huntington, Utah		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 20-17S-8E
g. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 684'	h. NO. OF ACRES IN LEASE 1120	i. NO. OF ACRES ASSIGNED TO THIS WELL 40
j. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A	k. PROPOSED DEPTH 4100'	l. ROTARY OR CABLE TOOLS Rotary
m. ELEVATIONS (Show whether DF, RT, GR, etc.) 6507'		n. APPROX. DATE WORK WILL START* June 1, 1982

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8-5/8"	24#	140'	125 SX
7-7/8"	5 1/2"	15.5#	4100'	150 SX

1. Drill to TD of 4100' (Dakota).
2. Run 5 1/2" casing if commercial production is indicated.
3. If dry hole, P&A as instructed by the U.S.G.S.
4. Well will be drilled with compressed air, tested open hole and mud up to run 5 1/2" casing.
5. Well control equipment will include double hydraulic System of 900 Series. A fillup line will be installed, equipment pressure mechanically checked daily while drilling.

Well Name: Ferron-Federal #16-20

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED W.P. Marx TITLE Petroleum Engineer DATE May 19, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY W.P. Marx E. W. Guynn
CONDITIONS OF APPROVAL, IF ANY: TITLE District Oil & Gas Supervisor DATE JUN 04 1982

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

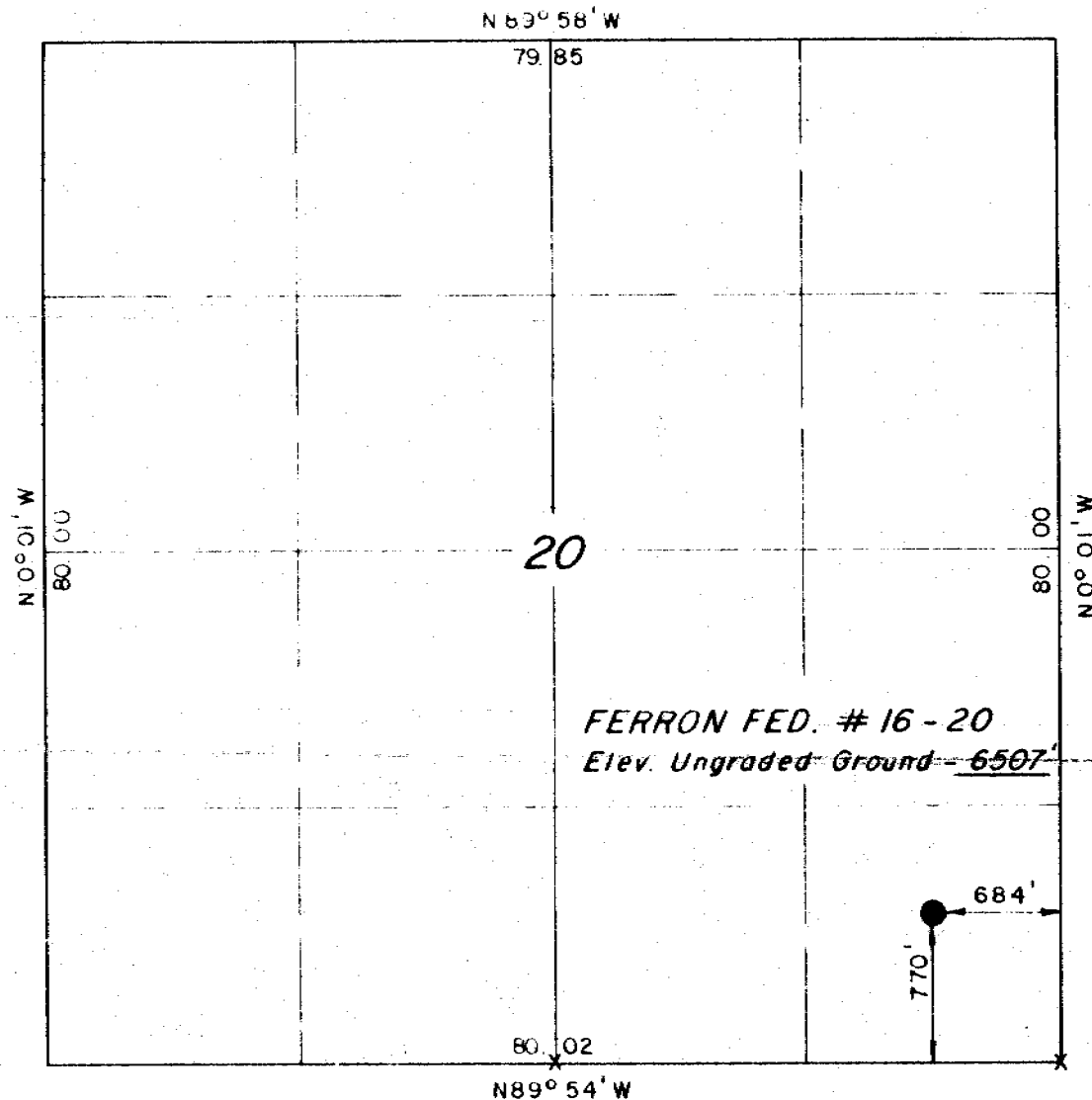
*See Instructions On Reverse Side

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

T 17 S , R 8 E , S . L . B . & M .

CHANDLER & ASSOCIATES INC.

Well location, *FERRON FED. #16-20*,
located as shown in the SE 1/4 SE 1/4
Section 20, T17S, R8E, S.L.B. & M.
Emery County, Utah.



CERTIFICATE

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3137
STATE OF UTAH

UNITED ENGINEERING & LAND SURVEYING
P.O. BOX Q -- 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	5/17/82
PARTY	DA JK RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	CHANDLER

X = Section Corners Located

United States Department of the Interior
Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator CHANDLER AND ASSOCIATES
Project Type GAS WELL
Project Location SE 1/4 SE 1/4 SEC 20, T17S, R8E
Well No. 16-20 Lease No. U-18128
Date Project Submitted 5-24-82

FIELD INSPECTION Date 6-2-82

Field Inspection Participants GEORGE J Diwachak MMS
MERV MILES BLM
DAVE BURNETT CHANDLER
JIM BOULDEN BOULDEN CONST.

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

6-4-82

Date Prepared

George J. Diwachak
Environmental Scientist

I concur

JUN 04 1982

Date

(ORIG. SGD.) W. P. MARTENS
Drilling Unit Supervisor

E. W. Guynn
for District Oil & Gas Supervisor

District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corres- pondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety	1 (6-2-82) ↓						6	6 (6-2-82) ↓	4.8
2. Unique charac- teristics	1						6	6	4.8
3. Environmentally controversial	1						6	6	4.8
4. Uncertain and unknown risks	1						6	6	4.8
5. Establishes precedents							6	6	4.8
6. Cumulatively significant							6	6	4
7. National Register historic places	1								
8. Endangered/ threatened species	1								
9. Violate Federal, State, local, tribal law							6	6	4.8

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey
(Conservation Division, Geological Division, Water Resource Division,
Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. RECOMMENDED STIPULATIONS

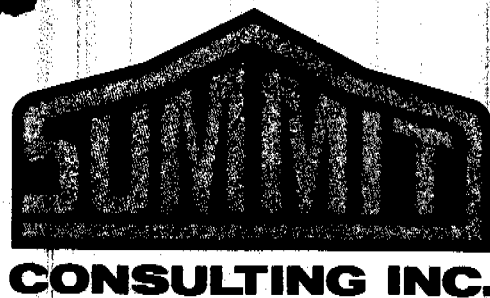


CHANDLER
~~16-20~~ 16-20

↑
SW

RECOMMENDED STIPULATIONS

1. A BLM - RIGHT-OF WAY WILL BE NECESSARY FOR USE, MAINTENANCE AND CONSTRUCTION OF ALL OFF LEASE, NON-COUNTY ROADS.
2. A 36 INCH CULVERT WILL BE INSTALLED AT THE FIRST DRAINAGE CROSSING ON THE NEW ACCESS ROAD
3. SEE BLM STIPULATIONS



CHANDLER and ASSOCIATES, INC.

Ferron Federal 16-20

SE 8E Section 20, T17S, R8E

Emery County, Utah

RECEIVED

JUL 19 1982

DIVISION OF
OIL, GAS & MINING

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RESUME

OPERATOR:	Chandler and Associates, Inc.
WELL NAME & NUMBER:	Ferron Federal 16-20
LOCATION:	SE SE Sec 20, T17S, R8E
COUNTY:	Emery
STATE:	Utah
SPUD DATE:	June 11, 1982
COMPLETION DATE (TD):	June 24, 1982
ELEVATIONS:	6,507' - GL 6,519' - KB
TOTAL DEPTH:	3,625' - Logs 3,625' - Driller
CONTRACTOR:	Chandler Drilling
RIG:	#7
TYPE RIG:	Double Brewster
PUMPS:	#1 - National, C-350 18" x 5-1/2" #2 - Gardner-Denver, F5K 14" x 6"
GEOLOGIST:	Clay Roberson, Summit Consulting, Inc.
ENGINEER:	Carl Winters/Dick Veghte
TYPE DRILLING MUD:	Water Based Gel to 1998' Fair Mist to TD 3-1/2% KCl Water for Logs
MUD COMPANY:	Crown
MUD ENGINEER:	Bob Zennadi
HOLE SIZES:	12-1/4 to 169' 7-7/8" to 3,615'
CASING:	8-5/8" @ 169' 5-1/2" @ 3615'
MUD LOGGING BY:	Tooke Engineering - John C.F. Walker
TYPE UNIT:	Conventional One-Man Unit
CORE INTERVALS:	None
DST DEPTHS:	None

Resume continued

DST COMPANY:

None

ELECTRIC LOGS BY:

Schlumberger

TYPE LOGS RUN WITH DEPTHS:

DLL-GR 1400' to TD
FDC-CNL 1,874' to TD
BHC-SONIC 1,914' to TD

LOGGING ENGINEER:

Doug Smith

BOTTOM FORMATION:

Basal Ferron

WELL STATUS:

Run Casing

SUMMARY and CONCLUSIONS

The Chandler and Associates, Inc. Ferron Federal #16-20 was drilled to a total depth of 3,615' (driller), 3,615' (Schlumberger) to the base of the Ferron Member.

The primary objectives w4re the sands of the Ferron Member of the Mancos Formation. The Ferron Sands were drilled from 3,307' to 3,523' with reverse breaks slowing the drilling from 2 m/f to 4 m/f and slower. The top of the Ferron (3,307 - 3,323) was a sandstone: wh, lt gy, lt brn, v f-f gr, sbang-rd, pr-m srt, slty, arg, calc, v pr-pr perm por, no stn, no cut, dul or min flor. The resistivities were as high as 750 and 2000 ohm-meters while porosities ranged from 6 to 10%, with crossover shown on the density log.

The next sand of interest (3,329' - 3,362') is described as follows: clr, wh, lt brn, v f-m gr, rd-sbrd, m-w srt, uncon, tr carb stn and incl, tr dol or flor, no cut. Resistivities ranged from 30 to 50 ohm-meters and porosities were from 10-12%, also showing crossover,

The third sand (3,378' - 3,418') is described: clr, wh, lt or-brn, v f-m gr, sbang-rd, pr-m srt, sl calc, arg and slty in pt, sm carb incl, tr dol or flor, no cut. Porosities ranged from 11-13%, also showing crossover and resistivities were from 25 to 60 ohm-meters.

The basals sands (3,474' to 3,523') were: wh, lt-m or-brn, v f-f gr, sbang, m-pr srt, v sl calc, arg, slty in pt, tr carb incl, tr min flor, NSOC. Resistivities ranged from 25-45 ohm-meters while porosities went from 9-13% showing some crossover.

It was intended to drill 50' into the Mancos (or trunk) shale, which would have come in around 3,650' (estimated from logs). Since the rigs maximum capacity with air-mist had been reached, and it was not possible to continue with mud due to severe lost circulation problems, the hole was TD'd at 3,625'. Subsequently, production casing was run.

FORMATION TOPS

Ferron Federal #16-20
Sec. 20, T17S, R8E
Emery County, Utah

Orangeville Unit #16-6 Fed.
Sec. 6, T18S, R8E
Emery County, Utah

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>+ or -</u>	<u>DEPTH</u>	<u>DATUM</u>
Emery Sandstone	230'	+6,289'	+ 29'	186'	+6,260'
Bluegate Shale	1,568'	+4,951'	- 159'	1,336'	+5,110'
Ferron Sandstone	3,307'	+3,212'	- 260'	2,974'	+3,472'
Mancos Shale	3,650'(est)	+2,869'est	- 227(est)	3,350'	+3,096'
TD	3,625'			3,915'	+2,531'

DAILY CHRONOLOGY

<u>1982 Date</u>	<u>6:00 a.m. Depth</u>	<u>Footage</u>	<u>Activity</u>
6-13	299'	130'	drilling, change out swivel, clean pits
6-14	726'	427'	trip for new bit #3, drilling
6-15	1,056'	330'	drilling, install desilter @ 820', work pipe through tight spots @ 907' and 1,058' trip for new bit #4, lose 80 bbls @ 1,110', lost circulation stopped
6-16	1,560'	504'	drilling, tight @ 1,598'
6-17	1,952'	392'	lose circulation @ 1,952' regain circulation and begin drilling @ 4:00 p.m.
6-18	1,991'	39'	lose circulation @ 1,991'
6-19	1,998'	7'	lose circulation, pipe stuck, pipe free @ 4:00 p.m.
6-20	1,998'	0'	pump cement at 3 depths, once each @ 1,956', 1,802', & 1,711', no returns
6-21	1,998'	0'	wait on & rig up air equipment
6-22	1,998'	0'	blow out & stage into hole drilling @ 10:00 a.m., release mud logger
6-23	2,839'	841'	drilling, trip for new bit #5
6-24	3,485'	646'	drilling, TD @ 3k625' @ 1:52 p.m. run logs

DRILLING PARAMETERS

<u>1982 Date</u>	<u>WOB</u>	<u>RPM</u>	<u>PP</u>	<u>SPM</u>	<u>PUMP #</u>	<u>SURVEY</u>
6-13	10	55	100	43	1	1° @ 170' 3/4° @ 417'
6-14	15	80	350	50	1	2-3/4° @ 604' 3-1/4° @ 726'
6-15	18-20	80	450	50	1	3-3/4° @ 969'
6-16	25	75	550	50	1	5° @ 1,191' 6° @ 1,567' 6-1/2° @ 1,807'
6-17	20	65	450	48	#1	
6-18	20	65	450	48	#1	
6-19	20	65	450	48	#1	
6-20	CEMENTING					
6-21	RIG UP AIR COMPRESSOR					
6-22	10-12	60	170 PSI	Air Compressor		
6-23	12	70	160 PSI	Air Compressor		
6-24	20	60-65	210 PSI	Air Compressor		

FLARE RECORD

<u>DEPTH</u>	<u>SIZE</u>	<u>DURATION</u>	<u>CONDITIONS</u>
3,008'	15'	30 Seconds	tripping in the hole, 10 stands off bottom

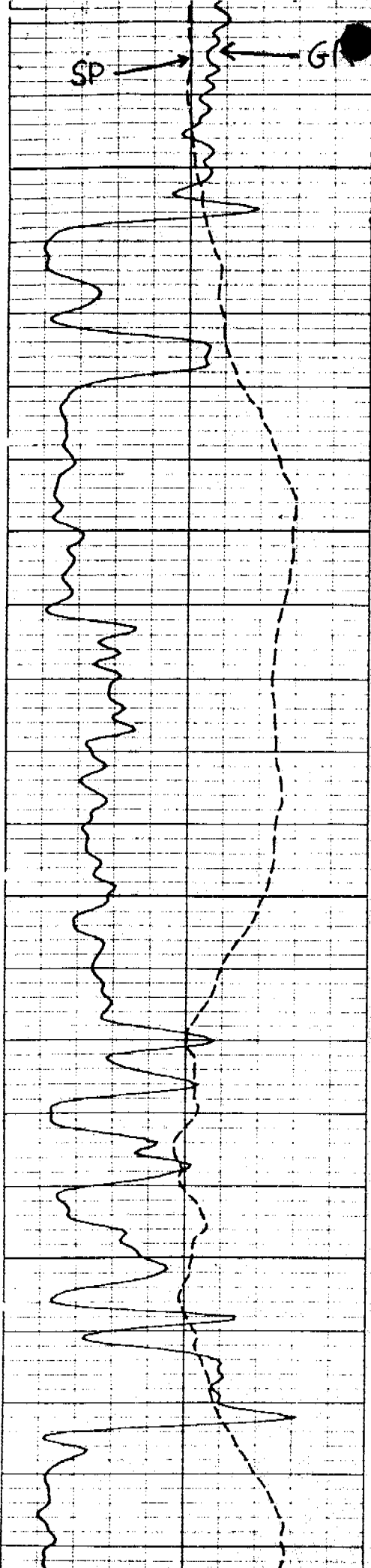
Running 2% KCl

ON

[illegible]

BIT RECORD

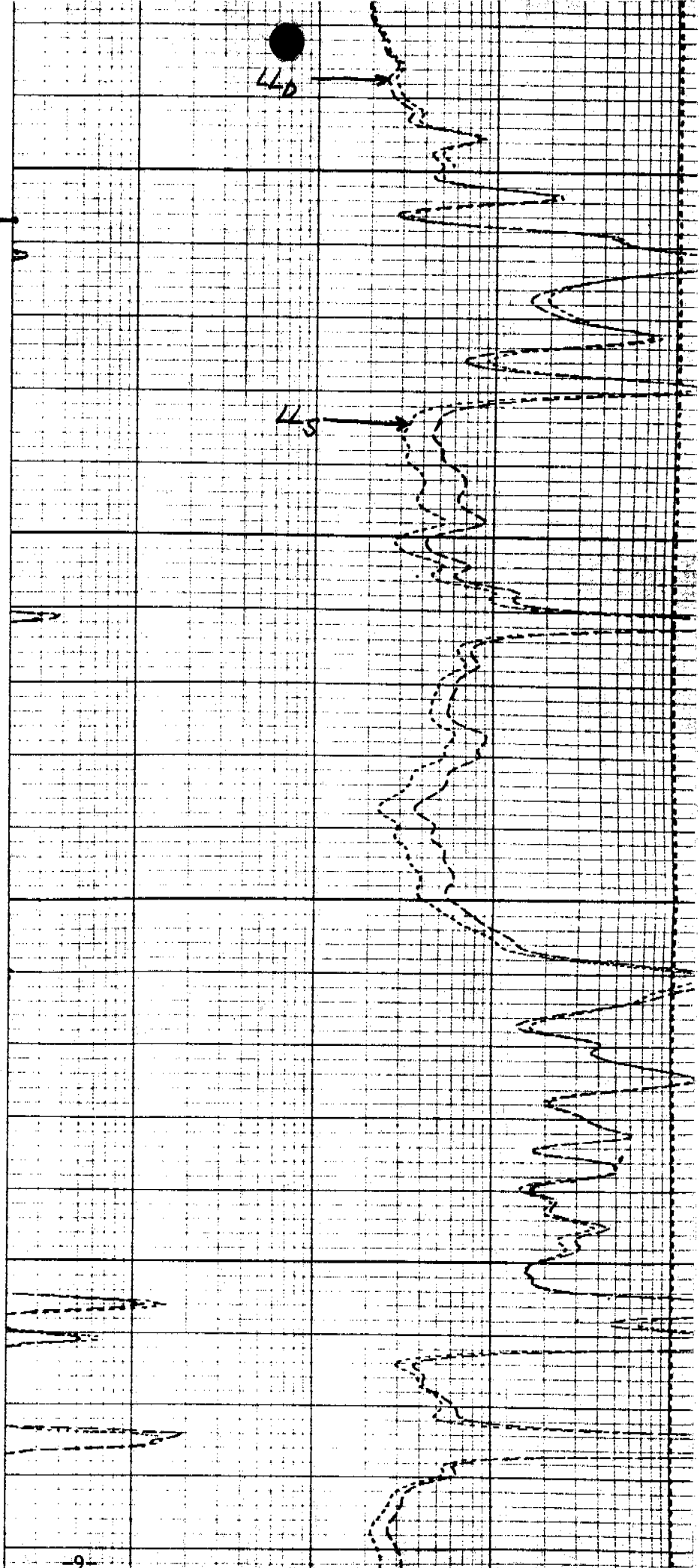
<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>IN</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HRS</u>
1	Reed	Y13J	12-1/4	11	169	158'	11-1/2
2	SEC	S4T	7-7/8	169	726	557'	30-3/4
3	Reed	FP-12	7-7/8	726	1,191	465'	26-1/2
4	SEC	S86F	7-7/8	1,191	3,308	2,117'	61-1/4
5	Reed	FP62	7-7/8	3,308	3,625	317'	-----

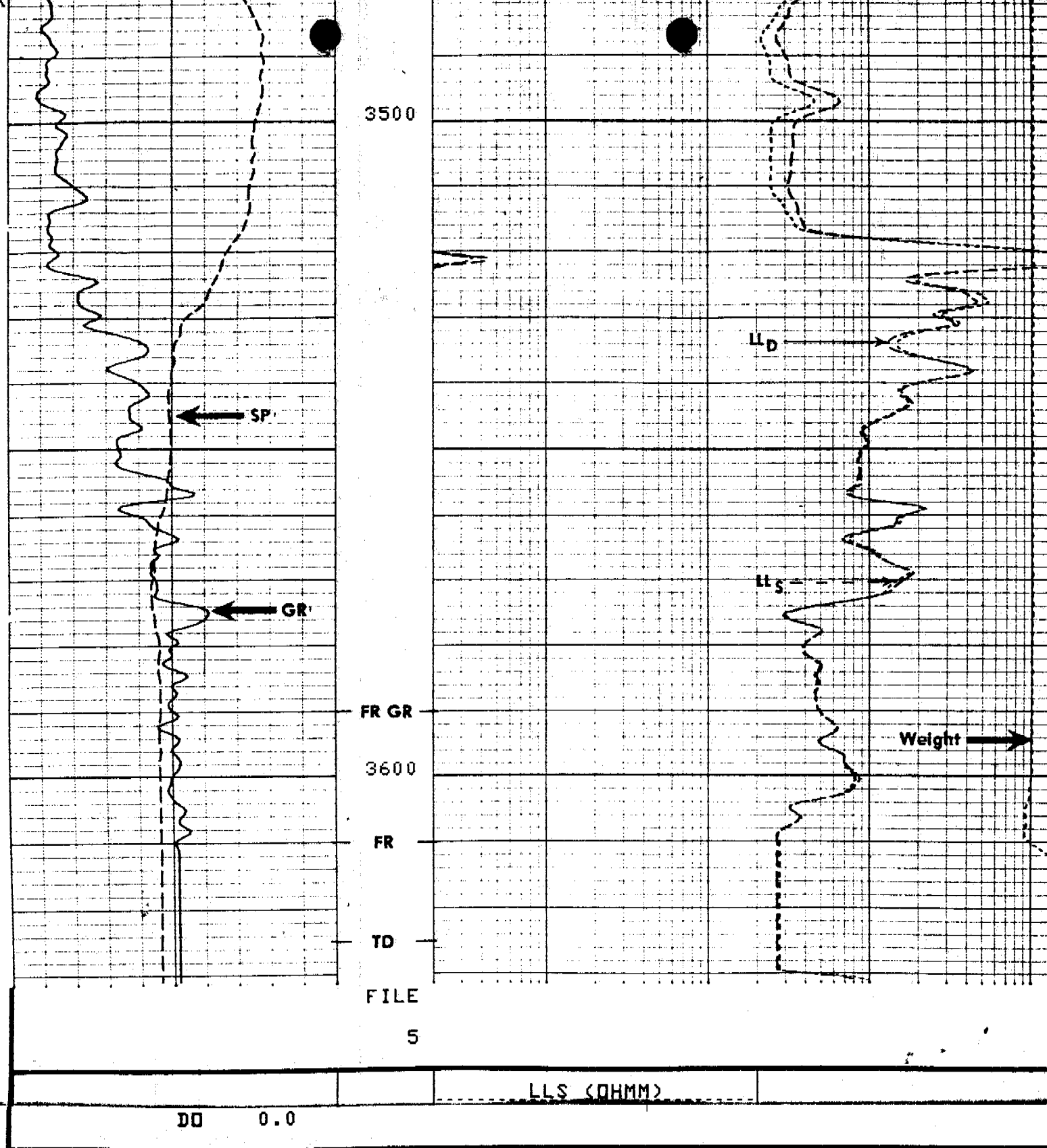


3300

Ferron

3400





BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED:

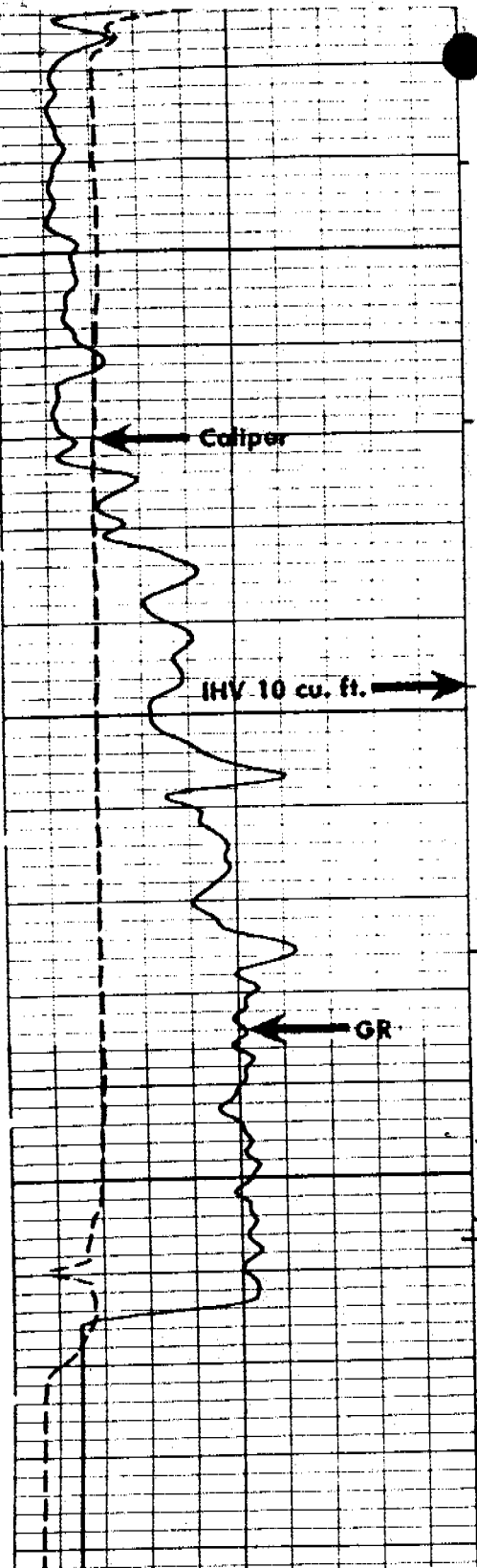
82/06/24

-10-

3300
FERRON

3400

ϕ_{NBU} →



3500

Caliper

IHV 10 cu. ft.

GR

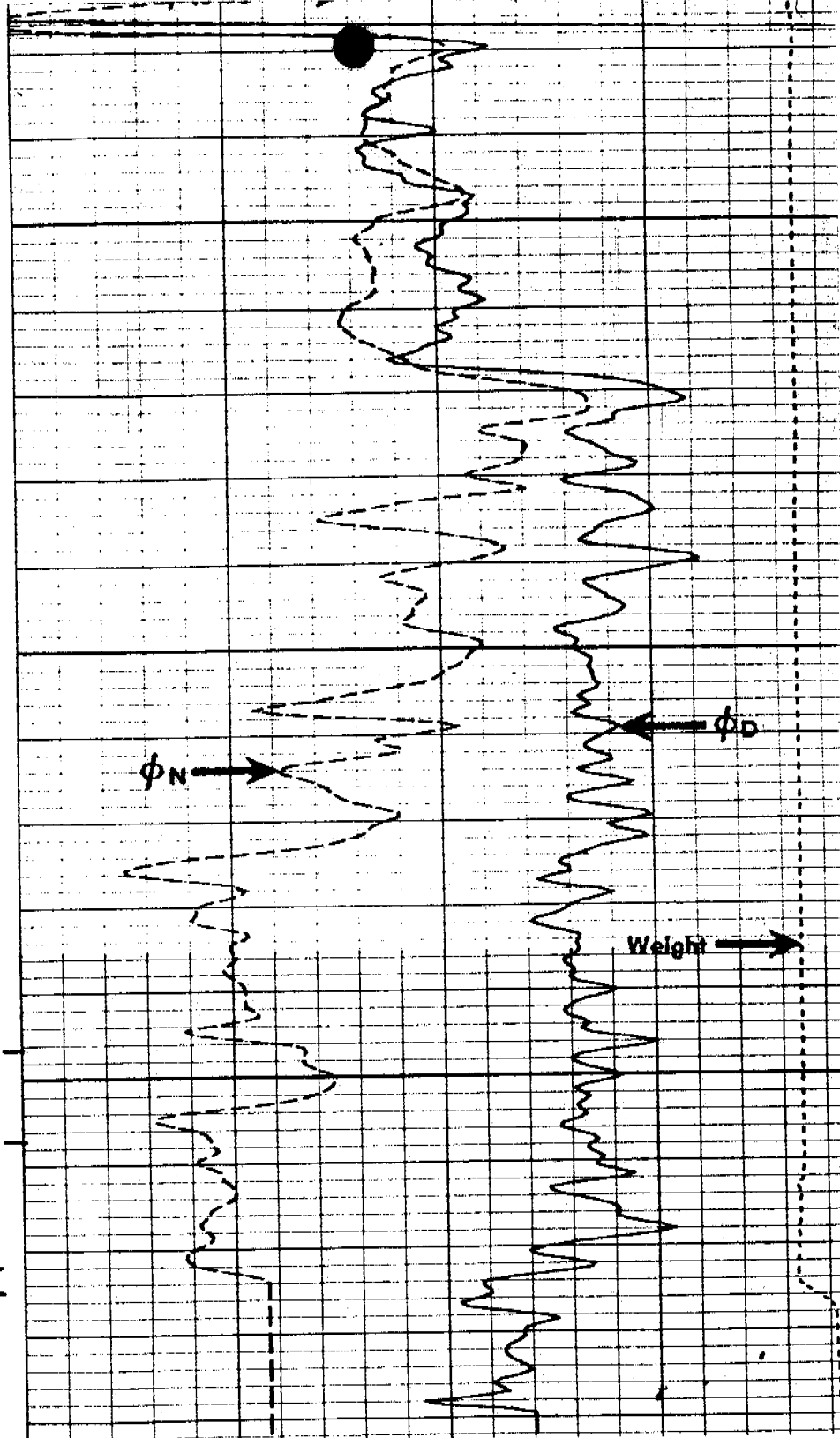
FR GR
3600

FR CNL

FR
TD

FILE

11



ϕ_N

ϕ_D

Weight

		TENS(LB)	
		10000.	0.
CALI(IN)		DPHI()	-0.10
6.000	16.00	0.3000	-0.10
GR (GAPI)		NPHI()	-0.10
0.0	200.0	0.3000	0.300
		0.7000	

LITHOLOGY

190 - 240	SH - dk gy frm, sb blk, slty, aren in pt, v sl calc
240 - 265	SLT - wh, dk gy, frm-v frm, blk, v arg in pt, v aren grdg to SS, sl-m calc
265 - 275	SH - dk gy, frm, sb blk, slty, aren in pt, v sl calc
275 - 280	SLT - wh, dk gy, frm-v frm, blk, v arg in pt, v aren in pt, sl-m calc
280 - 295	SH - dk gy, frm, sb blk, slty, aren in pt, v sl calc
295 - 300	SLT - wh, dk gy, frm-v frm, blk v arg in pt, v aren in pt, sl-m calc
300 - 320	SS - 2h, lt brn, v-f gr grdg to slt, sbrd pr srt, sl-v arg, sl calc
320 - 450	SH - m-dk gy, frm, blk-sb blk, slty grdg to slt, sl calc
450 - 460	SLT - lt-dk gy, wh, frm-v frm, blk arg, aren in pt, sl calc
460 - 485	SH - m-dk gy, frm, blk-sb blk, slty grdg to slt sl calc
485 - 525	SLT - lt-dk gy, frm-v frm, blk, arg, aren in pt, sl calc
525 - 580	SH - m-dk gy, frm, blk-sb blk, slty, grdg to SH, sl calc
580 - 590	SLT - lt-dk gy, frm-v frm, blk, arg, aren in pt, sl calc
590 - 610	SH - m-dk gy, frm, blk-sb blk, slty grdg to slt sl calc
610 - 630	SLT - lt-dk gy, frm-v frm, blk, arg, aren in pt, sl calc
630 - 640	SH - m-dk gy, frm, blk-sb blk, slty, sl calc
640 - 670	SLT - lt-dk gy, frm-v frm, blk, arg, aren in pt, sl calc
670 - 705	SH - m-dk gy, frm, blk-sb blk, slty, sl calc
705 - 740	SLT - lt-dk gy, wh, frm-v frm, blk, arg, aren, sl-m calc
740 - 755	SLT - lt gy, frm, blk, arg, aren, grdg to SS, sl calc
775 - 810	SS - lt gy, wh, v f gr grdg to SH, sbang-sbrd, pr srt, sl calc arg slty, dull yel-gn min flor
810 - 880	SLT - lt-dk gy, gy-brn, frm, blk, arg, grdg to SH in pt, aren in pt, sl calc
880 - 920	SH - m-dk gy, frm, blk, slty, sl calc, tr carb incl
920 - 945	SLT - m gy, wh, frm, blk, arg, aren, sl calc

Lithology continued

945 - 990	SS - wh, lt gy, v f gr, grdg to SLT, sbang-sbrd, pr srt, sl calc, arg slty
990 - 1,060	SLT - lt-dk gy-brn, wh, frm, blk, arg, aren, sl calc
1,060 - 1,090	SS - lt gy-brn, wh, mott, v f gr, grdg to SLT, pr srt, sbrd, v arg, slty, sl calc
1,090 - 1,205	SLT - lt-dk gy, brn, wh, lt brn, frm, blk, arg, aren, sl calc
1,205 - 1,215	SS - lt gy-brn, wh, mott, v f gr, grdg to SLT, sbrd, pr srt, v arg, slty, sl calc
1,215 - 1,250	SLT - lt dk gy-brn, frm, blk, arg, aren, sl calc
1,250 - 1,310	SLT - lt-dk gy-brn, frm, blk, arg, v aren, sl calc
1,310 - 1,340	SLT - lt-dk gy-brn, frm, blk, aren in pt, arg, grdg to SH, tr carb incl
1,340 - 1,500	SH - m-dk gy-brn, frm, blk, slty in pt, sl calc, tr carb incl
1,500 - 1,530	SLT - lt-dk gy-brn, wh mott, frm-v frm, blk, v arg, v aren in pt, sl calc
1,530 - 1,540	SH - m-dk gy-brn, frm, blk, slty in pt, sl calc, tr carb incl
1,540 - 1,610	SLT - lt-dk gy-brn, wh, mott, frm-v frm, blk, v arg, v aren in pt, sl calc
1,610 - 1,760	SH - gy-brn, frm, blk, slty, aren in pt, sl calc
1,760 - 1,790	NO SAMPLE
1,790 - 1,910	SH - dk gy-brn, frm, blk, slty, aren in pt, sl calc
1,910 - 1,998	NO SAMPLES - LOST CIRCULATION
1,998 - 2,150	SH - dk gy, dk gy-brn, frm-hd, blk, aren in pt, slty, sl calc
2,150 - 2,510	SH - dk gy, dk gy-brn, hd, blk, aren in pt, slty, calc
2,510 - 2,540	SH - dk gy, dk gy-brn, hd, blk, aren in pt, slty, calc, tr pris calc frac fill tr pyr
2,540 - 2,840	SH - dk gy, dk gy-brn, hd, blk, aren in pt, slty, calc
2,840 - 3,250	SH - gy-brn, frm-hd, blk, slty, tr pyr, sl calc, slty
3,250 - 3,285	SH - m-dk gy-brn, frm, blk, slty, aren in pt, sl calc
3,285 - 3,324	SS - wh, lt gy, lt brn, v f-f gr, sbang-rd, pr-m srt, slty, arg, calc, no stn, dull or yel min flor, no cut, por & perm-v pr-pr

Lithology Continued

3,324 - 3,326	COAL - blk, vit, frm, blk-sb blk
3,326 - 3,350	SS - clr, wh, lt brn, v f-m gr, rd-sbrd, m-w srt, uncon, tr carb stn incl
3,350 - 3,352	COAL - blk, vit, frm, blk-sb blk
3,352 - 3,356	SS - clr, v f-m gr, rd-sbrd, m-w srt, uncon, tr dul or flor, no cut
3,356 - 3,359	COAL - blk, vit, frm, blk-sb-blk
3,359 - 3,420	SS - clr, wh, lt or-brn, v f-m gr, sbang-rd, pr-m srt, sl calc, arg, slty in pt, sm arb incl, tr dul or flor, no cut
3,420 - 3,430	SLT - dk brn, frm, blk, arg, carb
3,430 - 3,445	SS - wh, clr, lt brn, v f-f gr, sbang, pr-m srt, sl calc, arg slty in pt
3,445 - 3,449	SLT - m-dk brn, frm, blk, arg, carb
3,449 - 3,459	COAL - blk, vit, frm, blk-sb blk
3,458 - 3,470	SLT - lt-dk brn, frm, blk, arg, aren in pt, carb in pt
3,470 - 3,495	SH - v lt-lt brn, frm, blk
3,495 - 3,540	SS - wh, lt-m or-brn, v f-f gr, sbang, m-pr srt, v sl calc, arg, slty in pt, tr carb incl, NSOC, tr min flor
3,540 - 3,595	SLT - lt-dk brn, frm, blk, arg, aren, sl calc
3,595 - 3,625	SH - m-dk brn, frm-v frm, blk, v slty, sl calc

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Information Update

SUBSEQUENT REPORT OF:

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5. LEASE
U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Ferron Federal

9. WELL NO.
16-20

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20-17S-8E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6-11-82 SPUD 7:30 PM.
6-13-82 Set 4 jts 8 5/8" csg at 164'
w/150 sx cmt.

6-20-82 Set cmt Plug #1 at 1946'-lost
circ.

6-21-82 Set cmt Plug #2 at 1834'.
Set cmt Plug #3 at 1734'.

6-25-82 Depth 3,625'. Ran FDC-CNL-GR,
BHC-GR, DLL-GR, Cyberlook logs.

6-26-82 Set 91 jts 5 1/2" csg at 3595'
w/175 sx cmt.
RIG RELEASED 4PM 6-25-82.

7-31-82 Ran GR-CBL-CCL. Perf'd Ferron 3344-
3350', 2 SPF. Acidized w/500 gals
15% HCL

8-1-82 Frac'd w/45,000 gals 70 quality
foam, 38,000# 10/20 sd, 15,000#
20/40 sd.

8-14-82 Perf'd 3384-3393 & 3309-3316, 2 SPF.
Selectively acidized w/15% HCL.

8-27-82 Well SI. WO further operations.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx TITLE Petroleum Engineer DATE 9-21-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Chandler & Associates, Inc.
3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colorado 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Information Update

SUBSEQUENT REPORT OF:

- ☐
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5. LEASE
U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Ferron Federal

9. WELL NO.
16-20

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20-17S-8E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well to further evaluate potential of well.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James W. Rowland TITLE Petroleum Engineer DATE 10-29-82
James W. Rowland

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 29, 1982

Chandler & Associates, Inc.
1401 Denver Club Bldg.
Denver, Colorado 80202

Re: Well No. Ferron Federal #16-20
Sec. 20, T. 17S, R. 8E.
Emery County, Utah
(September 1982)

Well No. State #1-36
Sec. 36, T. 18S, R. 7E.
Emery County, Utah
(July- September 1982)

Well No. Orangeville Unit Federal #16-6
Sec. 6, T. 18S, R. 8E.
Emery County, Utah
(September 1982)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above matter will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

CF/cf
Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐
well well

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Information Update

SUBSEQUENT REPORT OF:

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5. LEASE
U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Ferron Federal

9. WELL NO.
16-20

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20-17S-8E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for further evaluation of potential.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx W.P. Marx TITLE Petroleum Engineer DATE 12-1-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐
well well

2. NAME OF OPERATOR

Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR

1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 684' FEL; 770' FSL (SE SE)

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Information Update

5. LEASE

U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ferron Federal

9. WELL NO.

16-20

10. FIELD OR WILDCAT NAME

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 20-17S-8E

12. COUNTY OR PARISH

Emery

13. STATE

Utah

14. API NO.

43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for further evaluation of potential.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Mar TITLE Petroleum Engineer DATE 1-4-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Chandler & Associates, Inc.
3. ADDRESS OF OPERATOR
1401 Denver Club Bldg. Denver, Colo 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Information Update

SUBSEQUENT REPORT OF:

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5. LEASE
U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ferron Federal

9. WELL NO.

16-20

10. FIELD OR WILDCAT NAME

Wildcat

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Sec. 20-17S-8E

12. COUNTY OR PARISH

Emery

13. STATE

Utah

14. API NO.

43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for further evaluation of potential.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx W.P. Marx TITLE Petroleum Engineer DATE 2-3-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other

2. NAME OF OPERATOR

Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR

1401 Denver Club Bldg, Denver, Colo 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 684' FEL; 770' FSL (SE SE)

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Information Update

SUBSEQUENT REPORT OF:

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5. LEASE

U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ferron Federal

9. WELL NO.

16-20

10. FIELD OR WILDCAT NAME

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 20-17S-8E

12. COUNTY OR PARISH

Emery

13. STATE

Utah

14. API NO.

43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6507 GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for further evaluation of potential.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

James W. Rowland
James W. Rowland

TITLE Petroleum Engineer DATE 3-2-83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colo 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Information Update			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for further evaluation of potential.

5. LEASE
U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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8. FARM OR LEASE NAME
Ferron Federal

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16-20

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Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20-17S-8E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx W.P. Marx TITLE Senior Engineer DATE 4-4-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Chandler & Associates, Inc.
3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colo. 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Information Update</u>			

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Pump testing well for further evaluation of potential.

5. LEASE
U-18128
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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16-20
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Sec. 20-17S-8E
12. COUNTY OR PARISH
Emery
13. STATE
Utah
14. API NO.
43-015-30110
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED
MAY 05 1983

**DIVISION OF
OIL, GAS & MINING**
Set @ _____ Ft.

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx TITLE Senior Engineer DATE 5-2-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐
2. NAME OF OPERATOR
Chandler & Associates, Inc.
3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colo 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 684' FEL; 770' FSL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Information Update</u>	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for further evaluation of potential.

RECEIVED
JUN 03 1983

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx W.P. Marx TITLE Senior Engineer DATE 6-1-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR

Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR

1401 Denver Club Bldg, Denver, Colo 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 684' FEL; 770' FSL (SE SE)

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Information Update

SUBSEQUENT REPORT OF:

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5. LEASE

U-18128

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ferron Federal

9. WELL NO.

16-20

10. FIELD OR WILDCAT NAME

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 20-17S-8E

12. COUNTY OR PARISH

Emery

13. STATE

Utah

14. API NO.

43-015-30110

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6507' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump test well. Will run production tests during July, 1983.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx W.P. Marx TITLE Senior Engineer DATE 7-5-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



CHANDLER & ASSOCIATES, INC.

1401 DENVER CLUB BUILDING • DENVER, COLORADO 80202 • 303 629-6756
OIL AND GAS EXPLORATION AND PRODUCTION

July 19, 1983

Mr. E.W. Guynn
Chief, Branch of Fluid Minerals
Bureau of Land Management
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

RE: Completion Report
Ferron Federal 16-20
Sec. 20, T. 17S, R. 8E
Emery County, UT
Lease U-18128

Dear Mr. Guynn:

This letter and accompanying Completion Report is in response to your letter of June 30, 1983, advising us that if we can show that the captioned well can produce in paying quantities then we will be eligible to receive a two year extension on the lease.

The enclosed Completion Report shows a calculated 24-hour test rate of 46 mcf per day. We believe that with the price incentives currently available to us under the NGPA of 1978, the well is capable of producing in paying quantities.

As you currently noted in your letter, we have been engaged in extensive testing of the Ferron Formation. Unfortunately, we ran into some mechanical difficulties when we fraced the well which seriously reduced its initial deliverability. In fact, all the evidence leading up to the fracture treatment indicated to us that the well would produce at even higher rates.

For example, upon perforating and acidizing the middle Ferron interval, we recovered approximately 44 mcfpd after recovering the acid load. We then fraced the well and experienced mechanical problems which created a downhole sand screenout. Even so, after circulating out 542 feet of frac sand, we tested the well at about 69 mcfpd.

We then put the well on a pump to try to recover more of the load water lost in the formation. We have been pump testing the well since October of 1982. Up to this point, we have had little success in significantly increasing the deliverability of the well.

However, we have been engaged in extensive work with Tera Tek, a research firm from Salt Lake City, in an effort to discover new stimulation techniques for all of our Ferron Formation wells. The first Tera Tek test well is jointly

July 19, 1983

owned by F-L Energy and Chandler & Associates, Inc. (Ferron Federal 14-27, SE SW Sec. 27, T. 17S, R. 8E, Emery County, UT). F-L Energy, the operator of the subject well, does not anticipate completing the well until sometime this fall. We believe that the results of the experimental program will be helpful in our re-stimulation efforts of the Ferron Federal 16-20.

Pursuant to your request, however, we have tested the well and have reported an I.P. rate of 46 mcfpd. Accordingly, we believe that the subject well is capable of producing in paying quantities, that we have been engaged in diligent completion and testing operations, and that we should be granted a 2-year extension on the subject lease.

Thank you for your consideration of this matter. Should you have any questions, please don't hesitate to call.

Sincerely yours,

CHANDLER & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'D. Burnett', with a stylized flourish at the end.

David Burnett

enclosures
DB/tz

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-1005

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. U-18128	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESEV. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----	
3. NAME OF OPERATOR Chandler & Associates, Inc.		7. UNIT AGREEMENT NAME -----	
4. ADDRESS OF OPERATOR 1401 Denver Club Bldg., Denver, Colorado-80202		8. FARM OR LEASE NAME Ferron Federal	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 684' FEL; 770' FSL (SE SE) At top prod. interval reported below At total depth Same		9. WELL NO. 16-20	
10. FIELD AND POOL, OR WILDCAT Wildcat		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 20-T17S-R8E	
12. PERMIT NO. 43-015-30110		13. DATE ISSUED AUG 03 1983	
14. COUNTY OR PARISH Emery		15. STATE Utah	
16. DATE SPUDDED 6-11-82		17. DATE T.D. REACHED 6-25-82	
18. DATE COMPL. (Ready to prod.) 8-14-82		19. ELEVATIONS (DF, RER, RT, GR, ETC.) 6519' KB	
20. ELEV. CASINGHEAD 6507		21. TOTAL DEPTH, MD & TVD 3625	
22. PLUG, BACK T.D., MD & TVD 3548		23. IF MULTIPLE COMPL. HOW MANY? -----	
24. INTERVALS DRILLED BY -----		25. ROTARY TOOLS X	
26. CABLE TOOLS -----		27. WAS DIRECTIONAL SURVEY MADE No	
28. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) Ferron Sand 3307-3418' KB		29. WAS WELL CORRED No	
30. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog, Neutron-Density, Sonic Log, Cement Bond Log, Sample		31. CASING RECORD (Report all strings set in well)	
32. LINER RECORD		33. TUBING RECORD	
34. PERFORATION RECORD (Interval, size and number)		35. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
3344-3350' KB 0.42" 14 holes 3384-3393' KB 0.42" 20 holes 3309-3316' KB 0.42" 16 holes		3344-3350 500 gals 15% HCL & foam frac w/70% quality foam w/15,000# 20/40 & 31,000# 10/20 sand-frac screened o 3384-3393 & 2500 gals 15% HCL	
33. DATE FIRST PRODUCTION 8-14-82		34. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping-(1 1/4" rod pump) Flowing	
35. WELL STATUS (Producing or shut-in) Shut In		36. DATE OF TEST 7-17-83	
37. HOURS TESTED 6 1/2		38. CHOKE SIZE 1 1/4"	
39. PROD'N. FOR TEST PERIOD -----		40. OIL—BSL. --	
41. GAS—MCF. 46		42. WATER—BSL. --	
43. OIL GRAVITY-API (CORR.) --		44. TEST WITNESSED BY Bill Reese	
45. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Shut in - Waiting on market		46. LIST OF ATTACHMENTS -----	
47. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED W.P. Marx		TITLE Petroleum Engineer	
DATE -----		DATE -----	

FORMATION TOPS

Ferron Federal #16-20
Sec. 20, T17S, R8E
Emery County, Utah

Orangeville Unit #16-6 Fed.
Sec. 6, T18S, R8E
Emery County, Utah

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>+ or -</u>	<u>DEPTH</u>	<u>DATUM</u>
Emery Sandstone	230'	+6,289'	+ 29'	186'	+6,260'
Bluegate Shale	1,568'	+4,951'	- 159'	1,336'	+5,110'
Ferron Sandstone	3,307'	+3,212'	- 260'	2,974'	+3,472'
Mancos Shale	3,650'(est)	+2,869'est	- 227(est)	3,350'	+3,096'
TD	3,625'			3,915'	+2,531'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

STRICTLY IN TRIPLICATE
(Other instructions on
reverse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back
Use "APPLICATION FOR PERMIT—" for such proposals)

RECEIVED
MAR 12 1990

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. NAME OF OPERATOR CHANDLER & ASSOCIATES, INC.	3. ADDRESS OF OPERATOR 1860 Lincoln St., Suite 770, Denver, CO 80203	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 684' FEL, 770' FSL (SE SE)	5. LEASE DESIGNATION AND SERIAL NO. U-18128	6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	7. PERMIT AGREEMENT NAME N/A	8. FARM OR LEASE NAME FERRON FEDERAL	9. WELL NO. 16-20	10. FIELD AND POOL, OR WILDCAT	11. SEC., T., R., M., OR ALK. AND SURVEY OR AREA Sec 20-17S-8E	12. COUNTY OR PARISH Energy	13. STATE UT
14. PERMIT NO. 43-015-30110	15. ELEVATIONS (Show whether DF, HT, GR, ETC.) GR 6507'											

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACUTURE TREAT	<input type="checkbox"/>	FRACUTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Extension of SI Status	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Economic and marketing conditions for connecting this well for gas sales have not changed. Chandler & Associates, Inc. is therefore requesting an extension of shut-in status.

1- JES	✓
1- JES	✓
1- JES	✓

2- TAS	✓
3- MICROFILM	✓
4- FILE	✓

cc: State of Utah
Div of Oil, Gas, Mining

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Hugo Cartaya</u>	TITLE <u>Petroleum Engineer</u>	DATE <u>March 9, 1990</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHANDLER & ASSOCIATES, INC.

3. Address and Telephone No.

1850 Anaconda Tower, 555 - 17th St., Denver, CO 80202 (303) 295-0400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

684' FEL, 770' FSL (SESE) Sec 20-17S-8E

5. Lease Designation and Serial No.

U-18128

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

FERRON FED 16-20

9. API Well No.

43-015-30110

10. Field and Pool, or Exploratory Area

Buzzard Bench

11. County or Parish, State

Emery County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other Annual Status Report
☐ Extension of SI Status
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Economic and marketing conditions for connecting this well for gas sales have not changed. Chandler & Associates is therefore requesting an extension of shut-in status.

FEB 12 1993

cc: State of Utah
Div. of Oil, Gas, Mining

14. I hereby certify that the foregoing is true and correct

Signed Hugo Cortez

Title Petroleum Engineer

Date February 10, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
 Use APPLICATION FOR PERMIT – for such proposals

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		6. Lease Designation and Serial Number
2. Name of Operator <i>Shenandoah Energy Inc.</i>		7. Indian Allottee or Tribe Name
3. Address of Operator <i>475 17th Street, Suite #1000 Denver, Colorado 80202</i>	4. Telephone Number <i>303-295-0400</i>	8. Unit or Communitization Agreement
5. Location of Well Footage : Please see attached spreadsheet County : QQ, Sec, T., R., M. : State :		9. Well Name and Number
10. API Well Number		11. Field and Pool, or Wildcat

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p style="text-align: center;">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p style="text-align: center;">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Change of Operator</u></td> <td></td> </tr> </table> <p>Date of Work Completion _____</p> <p><small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small></p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>	
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<input checked="" type="checkbox"/> Other <u>Change of Operator</u>																											

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that effective 1/1/200 Chandler & Associates, Inc has changed its name to Shenandoah Energy Inc. Shenandoah Energy Inc. is responsible under the terms and conditions of the lease for the operation conducted upon the leased lands. Shenandoah Energy Inc. is bonded in the amount of \$80,000.00 to the School and Inst. Trust Lands via a name change rider filed with the State. Continental Casualty Bond # 159261960.

14. I hereby certify that the foregoing is true and correct.

Name & Signature Thomas D. Taylor

Title Production Geologist

Date 05/25/2000

(State Use Only)

RECEIVED

MAY 30 2000

DIVISION OF
OIL, GAS AND MINING

SHENANDOAH ENERGY INC.
UTAH OPERATED WELLS

A.P.I. #	ENTITY	WELL NAME	WELL #	LOCATION	FIELD NAME	PROD. ZONE	FORMATION	WELL TYPE	AGREEMENT
43-047-15090-00	04915	WRU	#31-4	SWSE 4, 8S-22E	WHITE RIVER		GREENRIVER	WSW	8910035090
43-047-15081-00	04915	WRU	#16-9	SWSE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15084-00	04915	WRU	#20-9	NESW 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15087-00	04915	WRU	#25-9	NENE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-31354-00	05170	WRU	#43-16	NENW 16, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	
43-047-31399-00	09915	WRU	#45-16	NENE 16, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	
43-047-32052-00	11468	DESERT SPRINGS FED.	#20-1	NESW 20, 10S-18E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-32088-00	12497	W. DESERT SPRING	#11-20	NESW 20, 10S-17E	WILDCAT	WSTC	WASATCH	OW	
43-013-32057-00	12497	W. RIVER BEND	#16-17-10-17	SESE 17, 10S-17E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-31888-00	12497	W. RIVER BEND	#3-12-10-15	NENW 12, 10S-15E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-32084-00	12497	WILKIN RIDGE	#13-23	SWSW 23, 10S-16E	WILDCAT	WSTC	GREEN RIVER	OW	
43-047-33163-00		DESERT SPRING	#7-30-10-18	SWNE 30, T10S-R18E	APD	WSTC			

RECEIVED

MAY 30 2000

DIVISION OF
OIL, GAS AND MINING

RECEIVED

MAY 30 2000

DIVISION OF OIL, GAS AND MINING

SHENANDOAH ENERGY INC.

UTAH OPERATED WELLS

A.P.I. #	ENTITY	WELL NAME	WELL #	LOCATION	FIELD NAME	PROD. ZONE	FORMATION	WELL TYPE	AGREEMENT
43-015-30168-00	10684	BUZZARD BENCH FED	#6-3	SENW 3, 19S-7E	BUZZARD BENCH	FRSD	FERRON	GW	8910204190
43-015-30229-00	10670	BUZZARD BENCH FED	#3-24	SESW 3, 19S-7E	BUZZARD BENCH	FRSD	FERRON	GW	8910204190
43-015-30110-00	10685	FERRON FED	#16-20	SESE 20, 17S-8E	BUZZARD BENCH	FRSD	FERRON	OW	
43-015-30257-00	11837	FERRON FEDERAL	#7-12-19-7	SWNE 12, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	
43-015-30000-00		FERRON FEDERAL	#16-9-10-7	SESE 9, 19S-7E	FERRON		FERRON	DRG	
43-015-3025300	11836	FERRON STATE	#4-36	SWNW 36, 18S-7E	BUZZARD BENCH	FRSD	FERRON	GW	
43-015-30222-00	11029	ORANGEVILLE FED	#1-11	NENE 11, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	891020388A
43-015-30221-00	10600	ORANGEVILLE FED	#4-1	NWNW 1, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	
43-015-30102-00	10920	ORANGEVILLE ST	#1-36	SESE 36, 18S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	8910203880
43-015-30179-00	00535	ORANGEVILLE STATE	#10-2	NWSE 2, 19S-7E	BUZZARD BENCH	FRSD	LOWER FERRON	GW	891020388A
43-015-30108-00	10978	ORANGEVILLE UNIT	#16-6	SESE 6, 18S-8E	BUZZARD BENCH	FRSD	FERRON	OW	
43-047-33164-00	12496	DESERT SPRING	#16-19-10-18	SESE 19, 10S-18E	DESERT SPRING	GRRV	GREEN RIVER	OW	
43-047-3316200	12523	DESERT SPRING	#3-29-10-18	NWNE 29, 10S-18E	DESERT SPRING	GRRV	GREEN RIVER	OW	
43-047-32493-00	11630	E COYOTE FEDERAL	#14-4-8-25	SESW 4, 8S-25E	EAST COYOTE FEDERAL	GRRV	GREENRIVER	OW	
43-047-31555-00	09497	ANTELOPE DRAW	#2-17-4C	SESW 17, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31556-00	09498	ANTELOPE DRAW	#3-17-3C	SESE 17, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-32476-00	11862	GLEN BENCH	#8-19	SENE 19, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31257-00	11587	GLEN BENCH FED	#44-19	L 20 19, 8S-22W	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-31355-00	11588	GLEN BENCH FED	#13-20	NWSW 20, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31356-00	06135	GLEN BENCH FED	#22-20	SENW 20, 8S-22E	GLEN BENCH		GREEN RIVER	WIW	UTU73974X
43-047-31433-00	06196	GLEN BENCH FED	#31-20	NWNE 20, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31008-00	06045	GLEN BENCH FED	#31-30	L 6 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-31260-00	06050	GLEN BENCH FED	#22-30	SENW 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-32549-00	11716	GLEN BENCH STATE	#6-16	SENW 16, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-32582-00	11716	GLEN BENCH STATE	#7-16	SENE 16, 8S-22E	GLEN BENCH		GREENRIVER	WIW	UTU73974X
43-047-32583-00	11732	GLEN BENCH STATE	#12-16	NWSW 16, 8S-22E	GLEN BENCH		GREENRIVER	WIW	UTU73974X
43-047-32756-00	11955	GLEN BENCH UNIT	#15-19-8-22	SWSE 19, 8S-22E	GLEN BENCH		GREEN RIVER	WIW	UTU73974X
43-047-32755-00	12014	GLEN BENCH UNIT	#4-30-8-22	NWNW 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-32857-00	12219	GLEN BENCH UNIT	#11-16-8-22	NESW 16, 8S-22E	GLEN BENCH	GRGBS	GREEN RIVER	OW	UTU73974X
43-013-3147700	12248	UTD WALTON	#26-03	NENW 26, 9S-16E	MONUMENT BUTTE	GRRV	GREEN RIVER	OW	
43-047-33252-00	12527	GLEN BENCH STATE	#2-36-8-21	NENW 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-33037-00	12377	GLEN BENCH STATE	#8A-36-8-21	SWNE 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-33038-00	12378	GLEN BENCH STATE	#6-36-8-21	SENW 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-32746-00	11944	SAGE GROUSE FEDERAL	#6-14-8-22	SENW 14, 8S-22E	NATURAL BUTTES	GRRV	GREEN RIVER	GW	
43-047-32724-00	12361	SAGE GROUSE FEDERAL	#8-36-8-21	SENE 36, 8S-21E	NATURAL BUTTES	GRRV	GREEN RIVER	GW	
43-047-3309500	12528	WHITE RIVER UNIT	#13-35-8-22	SWSW 35, 8S-22E	NATURAL BUTTES	WSTC	WASATCH	GW	891003509B
43-047-3306100	12528	WHITE RIVER UNIT	#15-35-8-22	SWSE 35, 8S-22E	NATURAL BUTTES	WSTC	WASATCH	GW	891003509B
43-047-3275400	12003	FLU KNOLES FED.	#23-3	NESW 3, 10S-18E	UTELAND BUTTE	GRRV	GREEN RIVER	OW	
43-047-15083-00	04915	WHITE RIVER UNIT	#19-9	SWNE 9, 8S-22E	WHITE RIVER		GREENRIVER	WIW	891003509D
43-047-15080-00	04915	WRU	#15-9	NESE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15085-00	04915	WRU	#24-10	NESW 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15086-00	04915	WRU	#27-10	SWNE 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-31561-00	10000	WRU	#47-10	L1 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3100
U-058 et al
(UT-932)

JUN 5 2000

NOTICE

Shenandoah Operating Company, LLC : Oil and Gas Leases
475 17th Street, Suite 1000 :
Denver, CO 80202 :

Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Chandler & Associates, LLC to Shenandoah Operating Company, LLC on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our automated records system. We have not abstracted the lease files to determine if the entity affected by the name change holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

A rider to statewide Surety Bond No. 124 29 03 64 (BLM Bond No. UT0969) changing the name on the bond from Chandler & Associates, LLC to Shenandoah Energy Inc. has been accepted by this office effective January 26, 2000. However, the rider makes no mention of Shenandoah Operating Company, LLC. A rider to the above bond adding the name of Shenandoah Operating Company, LLC needs to be submitted to this office.

/s/ Robert Lopez

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure
Exhibit of Leases

RECEIVED

JUN 06 2000

DIVISION OF
OIL, GAS AND MINING

**EXHIBIT A
LEASES AFFECTED BY NAME CHANGE**

U-058	UTU-64911	UTU-72468	UTU-74494	UTU-75102
U-059	UTU-64912	UTU-72598	UTU-74493	UTU-75103
U-0629	UTU-65276	UTU-72634	UTU-74496	UTU-75116
U-0803	UTU-65485	UTU-72649	UTU-74830	UTU-75243
U-0971	UTU-65632	UTU-73182	UTU-74831	UTU-75503
U-0971-A	UTU-65771	UTU-73409	UTU-74832	UTU-75678
U-01089	UTU-65777	UTU-73443	UTU-74833	UTU-75684
U-02510-A	UTU-66014	UTU-73456	UTU-74834	UTU-76278
U-029649	UTU-66473	UTU-73482	UTU-74836	UTU-76482
U-9613	UTU-67844	UTU-73502	UTU-74842	UTU-76721
U-9617	UTU-68387	UTU-73680	UTU-74966	UTU-76835
U-9809	UTU-68620	UTU-73681	UTU-74967	UTU-76963
U-18126	UTU-69001	UTU-73684	UTU-74968	UTU-77061
U-18134	UTU-69402	UTU-73686	UTU-74971	UTU-77063
U-18889-A	UTU-65404	UTU-73687	UTU-75071	UTU-77301
U-18897-A	UTU-67532	UTU-73914	UTU-75076	UTU-77503
U-28652	UTU-69403	UTU-73917	UTU-75079	UTU-77508
U-43915	UTU-71407	UTU-74374	UTU-75080	UTU-77514
U-43916	UTU-71416	UTU-74380	UTU-75081	UTU-78021
U-43918	UTU-71432	UTU-74394	UTU-75082	UTU-78028
U-51015	UTU-72002	UTU-74401	UTU-75083	UTU-78029
U-56947	UTU-72066	UTU-74402	UTU-75084	UTU-78215
U-63150	UTU-72109	UTU-74407	UTU-75085	UTU-78216
UTU-64906	UTU-72118	UTU-74408	UTU-75086	
UTU-64907	UTU-72356	UTU-74419	UTU-75087	
UTU-64908	UTU-72467	UTU-74457	UTU-75088	
	U-63021X (White River Unit)		U-63079X (Orangeville Unit)	
	U-63083X (Buzzard Bench Unit)		UTU-73974X (Glen Bench Unit)	

RECEIVED

JUN 06 2000

DIVISION OF
OIL, GAS AND MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS ✓
2. CDW ✓		5- CDW ✓
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change (Only)

Merger

The operator of the well(s) listed below has changed, effective: **8-24-2000****FROM: (Old Operator):**

CHANDLER & ASSOCIATES INC
 Address: 475 17TH STREET STE 1000

 DENVER, CO 80202
 Phone: 1-(303)-295-0400

 Account No. N3320

CA No.

TO: (New Operator):

SHENANDOAH ENERGY INC
 Address: 475 17TH STREET STE 1000

 DENVER, CO 80202
 Phone: 1-(303)-295-0400

 Account No. N4235

Unit:

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
FERRON FEDERAL 16-20	43-015-30110	10685	20-17S-08E	FEDERAL	OW	S
FERRON STATE 4-36-18-7	43-015-30253	11836	36-18S-07E	STATE	GW	S
FERRON FEDERAL 7-12-19-7	43-015-30257	11837	12-19S-07E	FEDERAL	GW	S
TOLL STATION STATE 8-36-8-21	43-047-32724	12361	36-08S-21E	STATE	GW	TA
SAGE GROUSE 12A-14-8-22	43-047-33177	12524	14-08S-22E	FEDERAL	GW	TA
ANTELOPE DRAW 2-174C	43-047-31555	9497	17-08S-22E	FEDERAL	OW	P
ANTELOPE DRAW 3-173C	43-047-31556	9498	17-08S-22E	FEDERAL	OW	P
GLEN BENCH U 15-18-8-22	43-047-33364	12690	18-08S-22E	FEDERAL	GW	P
FEDERAL 31-20	43-047-31433	6196	20-08S-22E	FEDERAL	OW	P

OPERATOR CHANGES DOCUMENTATION

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/30/2000
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 05/30/2000
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 11/02/2000
- Is the new operator registered in the State of Utah: YES Business Number: 1467732-0143
- If **NO**, the operator was contacted on: _____
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 06/05/2000
- Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC") Prog:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

- 1. Changes entered in the **Oil and Gas Database** on: 11/06/2000
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 11/06/2000
- 3. Bond information entered in RBDMS on: N/A
- 4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

- 1. State well(s) covered by Bond No.: 159261960

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

- 1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: N/A
- 2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A
- 3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: _____

FILMING:

- 1. All attachments to this form have been **MICROFILMED** on: 3.2.01

FILING:

- 1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: _____

COMMENTS:



SHENANDOAH ENERGY INC.

Western District – Completion & Workover Department

James A. Simonton-Completion Supervisor

11002 E. 17500 S.

Vernal, UT 84078

Mobile: 435-790-5467

Messages: 435-781-4342

Fax: 435-781-4334

April 18, 2001

Re: Chandler & Assoc. wells
Emery County, Utah

Mr. Edward W. Bonner
Mineral Resources Specialist
Utah Division of Oil, Gas & Mining
1594 W. N. Temple, Suite 1210, Box 145801
Salt Lake City, UT 84114-5801

Dear Mr. Bonner:

Please be advised that work was completed on the following wells between
3-26-01 and 4-4-01 by Gardner's Roustabout Service:

Orangeville Fed. 16-6 – Trash picked up. Well sign installed.	43.015.30108
Ferron Fed. 14-27 – Wellhead leak repaired.	43.015.30135
Ferron Fed. 16-20 – Road repaired.	43.015.30110

Orangeville 1-36 was plugged and abandoned on 11-30-00. Dennis Ingram
of Utah OGM witnessed. A sundry notice has been filed.

If you have further questions, please don't hesitate to contact me.

Sincerely,

James A. Simonton

JAS:jep

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER See Exhibit A

2. NAME OF OPERATOR:
MERRION OIL & GAS CORPORATION

3. ADDRESS OF OPERATOR:
610 Reilly Avenue CITY Farmington STATE NM ZIP 87401-2634 PHONE NUMBER: (505) 327-9801

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Exhibit A

5. LEASE DESIGNATION AND SERIAL NUMBER:

See Exhibit A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

See Exhibit A

9. API NUMBER:

Exhibit A

10. FIELD AND POOL, OR WILDCAT:

See Exhibit A

COUNTY: Emery

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: See Exh A

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Change of Operator
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Shenandoah Energy, Inc., 475 17th St., Suite 1000, Denver, CO 80202, (303) 295-0400, hereby resigns effective May 1, 2002.

SHENANDOAH ENERGY, INC.

NAME (Please Print) Gary L. Nordloh

TITLE President

SIGNATURE

DATE 5/7/02

Please be advised that effective May 1, 2002, Merrion Oil & Gas Corporation, 610 Reilly Avenue, Farmington, NM 87401-2634, 505-327-9801, has assumed the operatorship of the wells described on Exhibit A attached hereto and made a part hereof. Merrion Oil & Gas Corporation is now responsible under the terms and conditions of the lease for the operations conducted upon the lease lands. Bond coverage for the lease activities is provided by NM 0883

MERRION OIL & GAS CORPORATION

State & Fee Bonding in process.

NAME (PLEASE PRINT) George F. Sharpe

TITLE President Investment Mgr

SIGNATURE

DATE

5-15-02

(This space for State use only)

EXHIBIT A

Attached to and made a part of that certain Form 9, dated effective May 1, 2002, by
SHENANDOAH ENERGY, INC. and MERRION OIL AND GAS CORPORATION

Box 1	Box 4	Box 4	Box 5	Box 8	Box 9	Box 10
<u>Type of Well</u>	<u>Footages at Surface</u>	<u>Q/Q/Sec/T/R/M</u>	<u>Lease Designation & Serial #</u>	<u>Well Name and Number</u>	<u>API Number</u>	<u>Field and Pool</u>
Gas	1994' FNL & 1867' FEL	SWNE 12-19S-7E	UTU-18134	Ferron Fed 7-12-19-7	43-015-30257	Buzzard Bench
Gas	511' FSL & 899' FEL	SESE 9-19S-7E	UTU-69403	Ferron Fed 16-9-19-7	43-015-30256	Lone Mountain
Oil	770' FSL & 684' FEL	SESE 20-17S-8E	UT ST ML-48176	Ferron Fed 16-20-17-8	43-015-30110	Lone Mountain
Gas	1011' FNL & 520' FWL	NWNW 36-18S-7E	UT ST ML-28195	Ferron State 4-36-18-7	43-015-30253	Buzzard Bench
Gas	502' FSL & 845' FWL	NWNW 1-19S-7E	UTU-18134	Orangeville U 4-1-19-7	43-015-30221	Buzzard Bench
Oil	775' FSL & 507' FEL	SESE 6-18S-8E	UT ST ML-48265	Orangeville Fed 16-6-18-8	43-015-30108	Lone Mountain
Gas	1236' FSL & 1595' FWL	SESW 3-19S-7E	U-18897-A	Buzzard Bench Fed 3-24-19-7	43-015-30229	Buzzard Bench
Gas	2264' FNL & 1965' FWL	SESW 3-19S-7E	U-18897-A	Buzzard Bench Fed 6-3-19-7	43-015-30168	Buzzard Bench
Gas	572' FNL & 795' FEL	NENE 11-19S-7E	U-18134	Orangeville U 1-11-19-7	43-015-30222	Buzzard Bench
Gas	1992' FSL & 2073' FEL	NWSE 2-19S-7E	UT ST ML-28199	Orangeville 10-2-19-7	43-015-30179	Buzzard Bench

Merrion Oil and Gas Corporation
Well No. 16-9-19-7
SESE Sec. 9, T. 19 S., R. 7 E.
Lease UTU69403
Grand County, Utah

CONDITIONS OF ACCEPTANCE

Acceptance of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Merrion Oil and Gas Corporation is considered to be the operator of the above well effective May 1, 2002, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by NM0883 (Principal - Merrion Oil and Gas Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

RECEIVED
MAY 23 2002
DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator Merrion Oil & Gas Corporation

3a. Address 610 Reilly Avenue
Farmington, NM 87401-2634

3b. Phone No. (include area code) 505-327-9801

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
770' FSL & 684' FEL
SESE 20-17S-8E

5. Lease Serial No.
UT ST ML-48176

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Ferron Fed 16-20-17-8

9. API Well No.
43-015-30110-00-00

10. Field and Pool, or Exploratory Area
Lone Mountain

11. County or Parish, State
Emery County, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity <input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other <u>Change of</u> <input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon <u>Operator</u> <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal
<input type="checkbox"/> Subsequent Report	
<input type="checkbox"/> Final Abandonment Notice	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. / Shenandoah Operating Company, LLC / Chandler & Associates, LLC / Chandler & Associates, Inc.
475 17th St, Suite 1000, Denver, CO 80202 Phone No. 303-295-0400
Shenandoah Energy Inc., Operator, hereby resigns effective May 1, 2002.
Shenandoah Energy Inc.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Gary L. Nordloh

Title

President

Signature

Date

4-17-02

RECEIVED

MAY 28 2002

Please be advised that effective _____, 2002, Merrion Oil & Gas Corporation is now considered to be the Operator of the following well:

Ferron Fed 16-20-17-8; SESE of Section 20, T17S-R8E, Lease UT ST ML-48176, Emery County, Utah
Merrion Oil & Gas Corporation is now responsible under the terms and conditions of the Lease for the operations conducted upon the leased lands. Bond coverage is provided by BLM No. NM 0883.

Merrion Oil & Gas Corporation

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

T. Greg Merrion

Title

President

Signature

Date

4-19-02

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**DIVISION OF
OIL, GAS AND MINING**

2002 MAY 13 P 1:12

RECEIVED
OFFICE

ROUTING

OPERATOR CHANGE WORKSHEET

1. GLH
2. CDW ✓
3. FILE

X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **05-01-2002**

FROM: (Old Operator):	TO: (New Operator):
SHENANDOAH ENERGY INC	MERRION OIL & GAS CORP
Address: 475 17TH STREET, STE 1000	Address: 610 REILLY AVE
DENVER, CO 80202	FARMINGTON, NM 87401-2634
Phone: 1-(303)-295-0400	Phone: 1-(505)-327-9801
Account No. N4235	Account No. N0630

CA No.

Unit:

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FERRON FEDERAL 16-20-17-8	20-17S-08E	43-015-30110	10685	FEDERAL	OW	S
FERRON STATE 4-36-18-7	36-18S-07E	43-015-30253	11836	STATE	GW	S
ORANGEVILLE FEDERAL 16-6-18-8	06-18S-08E	43-015-30108	10978	FEDERAL	OW	S
ORANGEVILLE U 4-1-19-7	01-19S-07E	43-015-30221	10600	STATE	GW	S
FERRON FEDERAL 16-9-19-7	09-19S-07E	43-015-30256	12691	FEDERAL	GW	P
FERRON FEDERAL 7-12-19-7	12-19S-07E	43-015-30257	11837	FEDERAL	GW	S

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/28/2002
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 05/28/2002
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/24/2002
- Is the new operator registered in the State of Utah: YES Business Number: 650289-0143
- If **NO**, the operator was contacted on: N/A
- (R649-9-2) Waste Management Plan received on: IN PLACE
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A

7. Federal and Indian Units:

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/18/2002

8. Federal and Indian Communization Agreements ("CA"):

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. Underground Injection Control ("UIC") The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 06/24/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 06/24/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: NM0883

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: U-18128
2. NAME OF OPERATOR: MERRION OIL & GAS CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 610 REILLY AVENUE CITY FARMINGTON STATE NM ZIP 87401		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 770' FSL & 684' FEL COUNTY: EMERY		8. WELL NAME and NUMBER: FERRON FEDERAL 16-20
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 20 17S 8E STATE: UTAH		9. API NUMBER: 43-015-30110
		10. FIELD AND POOL, OR WILDCAT: BUZZARD BENCH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

SEE ATTACHED PLUG & ABANDON PROCEDURE.

RECEIVED

FEB 23 2007

DIV. OF OIL, GAS & MINING

3-9-07
Rm

NAME (PLEASE PRINT): GEORGE F. SHARPE	TITLE: MANAGER OIL & GAS INVESTMENT
SIGNATURE: <i>George Sharpe</i>	DATE: 2/16/2007

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

JDB _____
TWD _____
DLC _____
BKW _____

FERRON FEDERAL 16-20
770' FSL & 684' FEL, Sec 20, T17S, R8E
Emery County, UT

Plug & Abandon Procedure

Formation: Ferron Sand. Top of Ferron formation @ 3,307'.

Surf Csg: 8-5/8"; 24#, K-55 csg @ 164'. Csg cmt'd w/ 150 sks Standard Cmt. Circ cmt to surf.

Prod Csg: 5-1/2", 15.5#, LTC csg @ 3,595'. PBTD @ 3,555'. Csg cmt'd w/ 175 sks 50/50 Poz-Cmt w/ additives. Did not circ cmt to surf.

Perfs: 3,309' – 3,316' w/ 16 holes.
3,344' – 3,350' w/ 14 holes
3,384' – 3,393' w/ 20 holes

Tbg: None

Rods: None

Pump: None

Current Status: Inactive

1. Notify both Dustin Doucet, Utah Division of Oil, Gas & Mining at 801-538-5281 and Eric Jones, BLM at 435-259-2117, 48 hrs in advance of pending operations.
2. Set 1 flowback tnk. MI 107 jts (3,350') of 2-7/8", 6.5#, J-55, EUE, 8 rd tbg.
3. MIRU PU w/ pmp & pit.
4. Bleed well dwn. Kill well w/wtr if necessary.
5. ND WH. NU BOP.
6. PU & TIH w/ 4-3/4" bit, bit sub, 5-1/2" csg scr, & 2-7/8" tbg to 3,305'. TOH & LD bit & csg scr.

7. MIRU WL. RIH w/5-1/2" CIBP. Set CIBP @ 3,295' (insure not set in csg collar, this depth is in the middle of a csg jt). Correlate depths w/ CNL/GR log ran on June 24, 1982. POH & RD WL.
8. MIRU cmt pmp trk.
9. TIH w/2-7/8" tbg to 3,294'. Load hole & circ cln w/ gelled wtr.
10. **PLUG #1:** Mix 25 sks Type V cmt (15.6 ppg, 1.18 cuft/sk) & spot a 220' balanced plug inside csg fr/3,294' – 3,074'. RD cmt pmp trk.
11. TOH & LD 2-7/8" tbg.
12. RU WL. RIH & perforate 3 holes in the 5-1/2" csg @ 215' w/HSC gun. POH & RDMO WL. ND BOP.
13. RU cmt pmp trk. Open the 5-1/2" x 8-5/8" bradenhead vlv. Tie pmp trk onto 5-1/2" csg. Load hole & establish circ.
14. **PLUG #2:** Mix 90 sks Type V cmt (15.6 ppg, 1.18 cuft/sk) & pmp it dwn the 5-1/2" csg & circ cmt up the 5-1/2" x 8-5/8" annulus. (The entire 5-1/2" csg & 5-1/2" x 8-5/8" annulus will be filled w/cmt fr/215' back to surf.) Cement volume is calculated on true hole plus 52% excess.
15. Monitor well for cmt fall back & top off if necessary. RDMO cmt pmp trk.
16. Cut off WH below surf csg. Install P&A marker. RDMO PU.
17. Haul all equip to XTO yard. The wellsite location will have to be reclaimed. Contact Mary Maddux (435-636-3668) of the BLM Price Field Office for reclamation instructions.

REGULATORY REQUIREMENTS:

- Bureau of Land Management approval.
- Utah Division of Oil, Gas & Mining approval.
- Letter of agreement to plug & abandon from Merrion Oil & Gas Corporation

WELL SERVICES:

- Pulling Unit
- Wireline Services
- Cementing Services

MATERIALS:

- 107 jts (3,350') 2-7/8", 6.5#, J-55, EUE, 8 rd tubing.

KB: 6,519'
GL: 6,507'
CORR: 12.0'

FERRON FEDERAL 16-20 PROPOSED P&A

DATA

LOCATION: 770' FSL & 684' FEL, SEC 20, T-17-S, R-8-E

COUNTY/STATE: EMERY COUNTY, UT

FIELD: FERRON, BUZZARD BENCH

FORMATION: FERRON SAND. TOP OF FERRON FORMATION @ 3,307'.

FEDERAL LEASE: **API #:** 43-015-30110

XTO ACCTG #: 114230

SPUD DATE: 06/11/82 **COMPL DATE:** 08/14/82

IP: NEVER PRODUCED

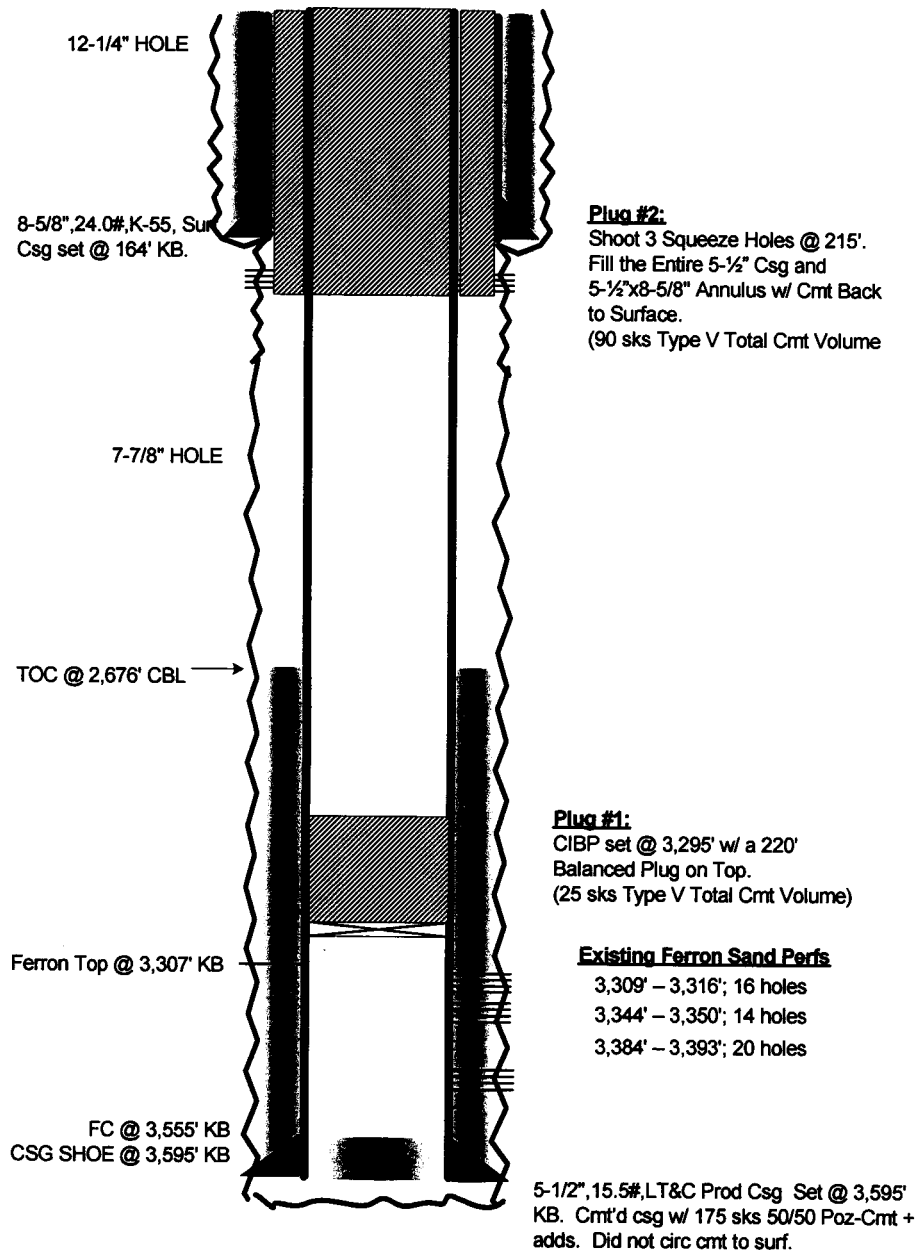
PRODUCTION METHOD: INACTIVE

TBG: NONE

PERFS: 3,309' – 3,316'; 3,344' – 3,350'; 3,384' – 3,393'

HISTORY:

xx/xx/xx: Well diagram of final abandonment is shown on left.



KB: 6,519'
GL: 6,507'
CORR: 12.0'

FERRON FEDERAL 16-20 WELLBORE DIAGRAM

DATA

LOCATION: 770' FSL & 684' FEL, SEC 20, T-17-S, R-8-E

COUNTY/STATE: EMERY COUNTY, UT

FIELD: FERRON, BUZZARD BENCH

FORMATION: FERRON SAND. TOP OF FERRON FORMATION @ 3,307'

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IP: NEVER PRODUCED

PRODUCTION METHOD: INACTIVE

TBG: NONE

PERFS: 3,309' – 3,316'; 3,344' – 3,350'; 3,384' – 3,393'

HISTORY:

06/11/82: CHANDLER & ASSOCIATES, INC SPUDDED 12-1/4" HOLE.

06/13/82: DRLD TO 169'. SET 8-5/8", 24#, K-55 SURF CSG @ 164' & CMT'D W/ 150 SKS REGULAR CMT. CIRC CMT TO SURF. SPUDDED 7-7/8" HOLE.

06/25/82: REACHED DRILLER'S TD OF 3,625'. CIRC F/ LOGS. MIRU SCHLUMBERGER WL. RAN OH LOGS. RDMO SCHLUMBERGER WL.

06/26/82: SET 5-1/2", 15.5#, LT&C CSG @ 3,595'. CMT'D W/175 SKS 50/50 POZ-CMT + ADDS. DID NOT CIRC CMT TO SURF.

07/31/82: RAN GR/CCL/CBL FR/ 3,542' – 2,500'. TOP OF CEMENT @ 2,676'. PERF FR/ 3,344' – 3,350' W/ 2 SPF. ACIDIZED W/ 500 GALS 15% HCL.

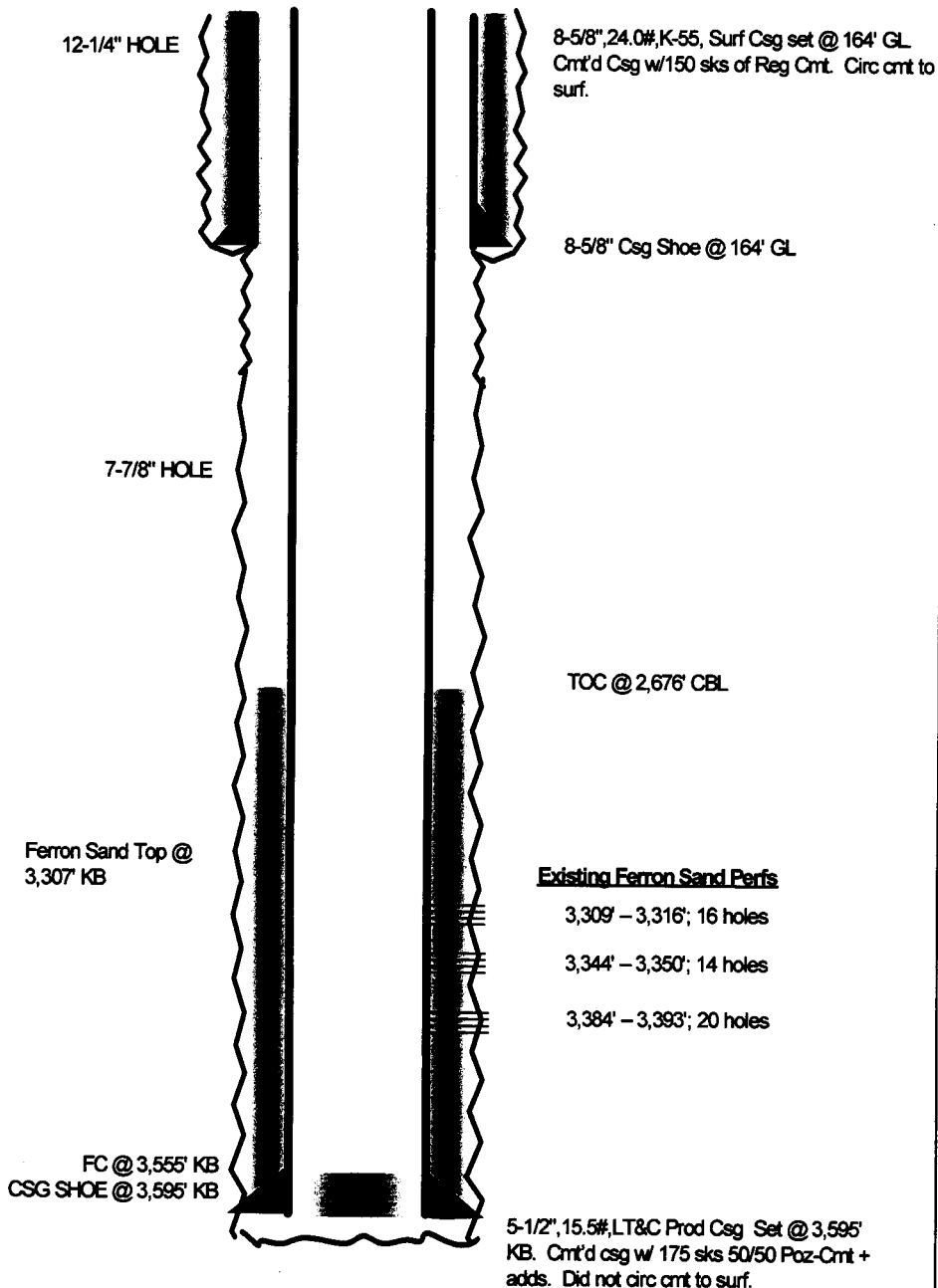
08/01/82: FRAC PERFS FR/ 3,344' – 3,350' W/ 45,000 GALS 70% QUALITY FOAM, 15,000# 20/40 SD, & 38,000# 10/20 SD.

08/14/82: PERF 3,309' – 3,316' & 3,384' – 3,393'. SELECTIVELY ACIDIZED PERFS FR/ 3,309' – 3,316' & 3,384' – 3,393' W/ 2,500 GALS 15% HCL.

ECONOMIC & MARKETING CONDITIONS TO TIE THIS WELL TO SALES NEVER MATERIALIZED

01/01/00: CHANDLER & ASSOCIATES INC. CHANGED THEIR NAME TO SHENANDOAH ENERGY INC.

05/01/02: MERRION OIL & GAS CORPORATION BECOMES THE OPERATOR.





JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

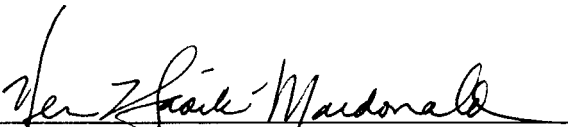
JOHN R. BAZA
Division Director

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number:	Ferron Fed 16-20
API Number:	43-015-30110
Operator:	Merrion to XTO
Reference Document:	Sundry Notice dated February 16, 2007, received by DOGM on February 23, 2007. Accepted March 8, 2007

Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
3. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 prior to continuing with the procedure.
4. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.


Helen Sadik-Macdonald for Dustin K. Doucet
Petroleum Engineer

August 16, 2007
Date



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: U-18128
2. NAME OF OPERATOR: MERRION OIL & GAS CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 610 REILLY AVENUE FARMINGTON STATE NM ZIP 87401		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 770' FSL & 684' FEL QTR/CTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 20 17S 8E		8. WELL NAME and NUMBER: FERRON FEDERAL 16-20
PHONE NUMBER: (505) 324-5300		9. API NUMBER: 43-015-30110
		10. FIELD AND POOL, OR WILDCAT: BUZZARD BENCH
		COUNTY: EMERY
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

SEE ATTACHED PLUG & ABANDON PROCEDURE.

RECEIVED

FEB 23 2007

DIV. OF OIL, GAS & MINING

3-9-07
Rm

NAME (PLEASE PRINT): <u>GEORGE F. SHARPE</u>	TITLE: <u>MANAGER OIL & GAS INVESTMENT</u>
SIGNATURE: <u><i>George Sharpe</i></u>	DATE: <u>2/16/2007</u>

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

(5/2000)

(See Instructions on Reverse Side)

Date: 3/8/07
By: *[Signature]*

JDB _____
TWD _____
DLC _____
BKW _____

FERRON FEDERAL 16-20
770' FSL & 684' FEL, Sec 20, T17S, R8E
Emery County, UT

Plug & Abandon Procedure

Formation: Ferron Sand. Top of Ferron formation @ 3,307'.

Surf Csg: 8-5/8"; 24#, K-55 csg @ 164'. Csg cmt'd w/ 150 sks Standard Cmt. Circ cmt to surf.

Prod Csg: 5-1/2", 15.5#, LTC csg @ 3,595'. PBD @ 3,555'. Csg cmt'd w/ 175 sks 50/50 Poz-Cmt w/ additives. Did not circ cmt to surf.

Perfs: 3,309' – 3,316' w/ 16 holes.
3,344' – 3,350' w/ 14 holes
3,384' – 3,393' w/ 20 holes

Tbg: None

Rods: None

Pump: None

Current Status: Inactive

1. Notify both Dustin Doucet, Utah Division of Oil, Gas & Mining at 801-538-5281 and Eric Jones, BLM at 435-259-2117, 48 hrs in advance of pending operations.
2. Set 1 flowback tnk. MI 107 jts (3,350') of 2-7/8", 6.5#, J-55, EUE, 8 rd tbg.
3. MIRU PU w/ pmp & pit.
4. Bleed well dwn. Kill well w/wtr if necessary.
5. ND WH. NU BOP.
6. PU & TIH w/ 4-3/4" bit, bit sub, 5-1/2" csg scr, & 2-7/8" tbg to 3,305'. TOH & LD bit & csg scr.

7. MIRU WL. RIH w/5-1/2" CIBP. Set CIBP @ 3,295' (insure not set in csg collar, this depth is in the middle of a csg jt). Correlate depths w/ CNL/GR log ran on June 24, 1982. POH & RD WL.
8. MIRU cmt pmp trk.
9. TIH w/2-7/8" tbg to 3,294'. Load hole & circ cln w/ gelled wtr.
10. **PLUG #1:** Mix 25 sks Type V cmt (15.6 ppg, 1.18 cuft/sk) & spot a 220' balanced plug inside csg fr/3,294' – 3,074'. RD cmt pmp trk.
11. TOH & LD 2-7/8" tbg.
12. RU WL. RIH & perforate 3 holes in the 5-1/2" csg @ 215' w/HSC gun. POH & RDMO WL. ND BOP.
13. RU cmt pmp trk. Open the 5-1/2" x 8-5/8" bradenhead vlv. Tie pmp trk onto 5-1/2" csg. Load hole & establish circ.
14. **PLUG #2:** Mix 90 sks Type V cmt (15.6 ppg, 1.18 cuft/sk) & pmp it dwn the 5-1/2" csg & circ cmt up the 5-1/2" x 8-5/8" annulus. (The entire 5-1/2" csg & 5-1/2" x 8-5/8" annulus will be filled w/cmt fr/215' back to surf.) Cement volume is calculated on true hole plus 52% excess.
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16. Cut off WH below surf csg. Install P&A marker. RDMO PU.
17. Haul all equip to XTO yard. The wellsite location will have to be reclaimed. Contact Mary Maddux (435-636-3668) of the BLM Price Field Office for reclamation instructions.

REGULATORY REQUIREMENTS:

- Bureau of Land Management approval.
- Utah Division of Oil, Gas & Mining approval.
- Letter of agreement to plug & abandon from Merriion Oil & Gas Corporation

WELL SERVICES:

- Pulling Unit
- Wireline Services
- Cementing Services

MATERIALS:

- 107 jts (3,350') 2-7/8", 6.5#, J-55, EUE, 8 rd tubing.

KB: 6,519'
GL: 6,507'
CORR: 12.0'

FERRON FEDERAL 16-20 PROPOSED P&A

DATA

LOCATION: 770' FSL & 684' FEL, SEC 20, T-17-S, R-8-E

COUNTY/STATE: EMERY COUNTY, UT

FIELD: FERRON, BUZZARD BENCH

FORMATION: FERRON SAND. TOP OF FERRON FORMATION @ 3,307'

FEDERAL LEASE: API #: 43-015-30110

XTO ACCTG #: 114230

SPUD DATE: 08/11/82 COMPL DATE: 08/14/82

IP: NEVER PRODUCED

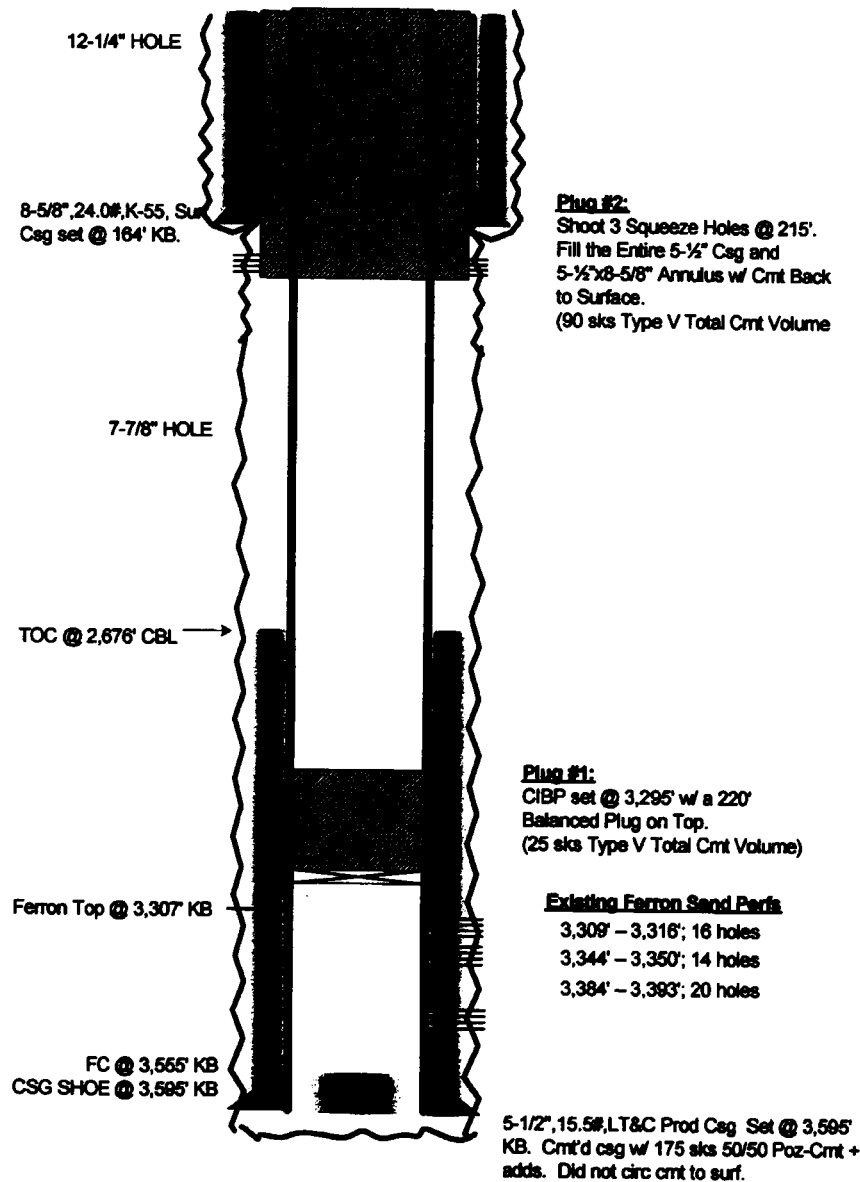
PRODUCTION METHOD: INACTIVE

TBG: NONE

PERFS: 3,309' - 3,316'; 3,344' - 3,350'; 3,384' - 3,393'

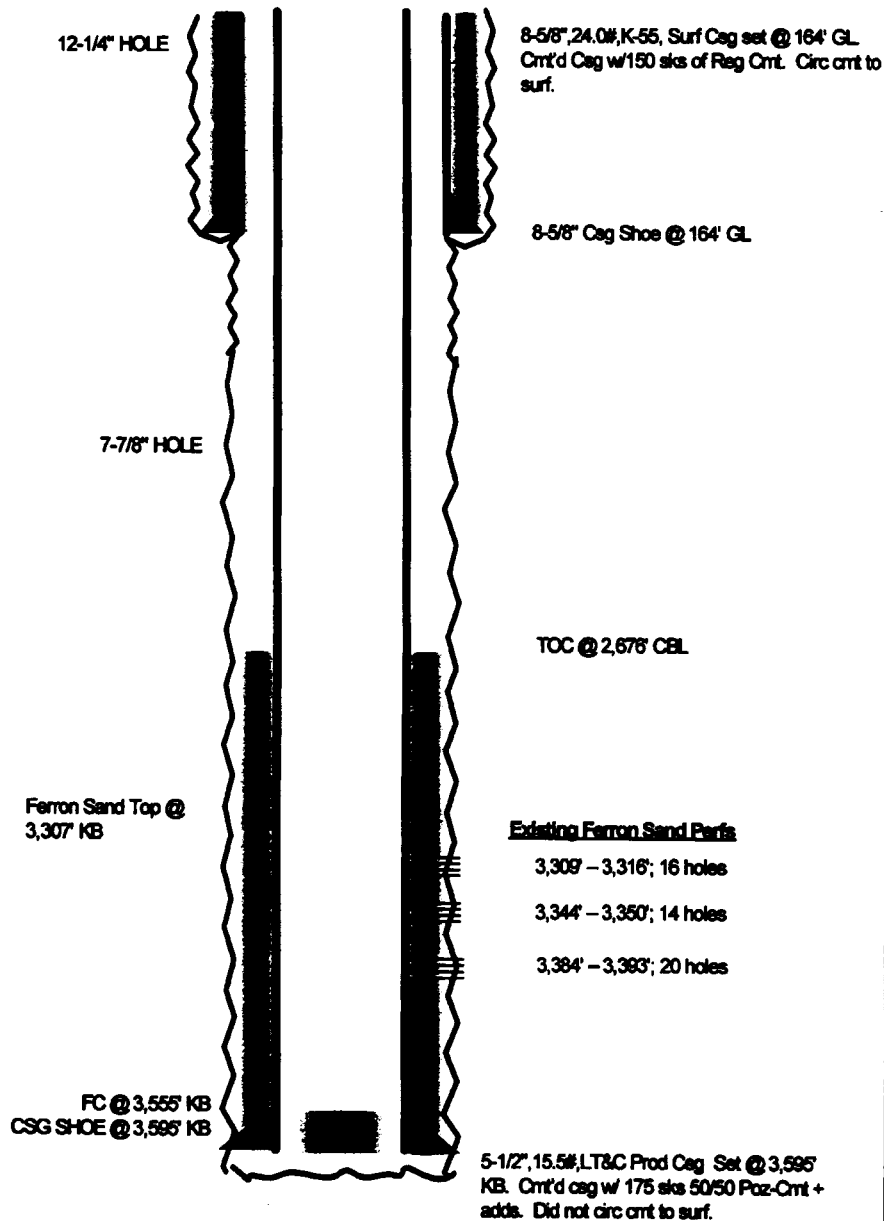
HISTORY:

xx/xx/xx: Well diagram of final abandonment is shown on left.



KB: 6,519'
GL: 6,507'
CORR: 12.0'

FERRON FEDERAL 16-20 WELLBORE DIAGRAM



DATA

LOCATION: 770' FSL & 684' FEL, SEC 20, T-17-S, R-8-E
COUNTY/STATE: EMERY COUNTY, UT
FIELD: FERRON, BUZZARD BENCH
FORMATION: FERRON SAND. TOP OF FERRON FORMATION @ 3,307'.
FEDERAL LEASE: **API #:** 43-015-30110 **XTO ACCTG #:** 114230
SPUD DATE: 06/11/82 **COMPL DATE:** 08/14/82
IP: NEVER PRODUCED
PRODUCTION METHOD: INACTIVE
TBG: NONE
PERFS: 3,309' - 3,316'; 3,344' - 3,350'; 3,384' - 3,393'

HISTORY:

06/11/82: CHANDLER & ASSOCIATES, INC SPUDED 12-1/4" HOLE.
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06/25/82: REACHED DRILLER'S TD OF 3,625'. CIRC F/ LOGS. MIRU SCHLUMBERGER WL. RAN OH LOGS. RDMO SCHLUMBERGER WL.
06/28/82: SET 5-1/2", 15.5#, LT&C CSG @ 3,595'. CMT'D W/ 175 SKS 50/50 POZ-CMT + ADDS. DID NOT CIRC CMT TO SURF.
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08/14/82: PERF 3,309' - 3,316' & 3,384' - 3,393'. SELECTIVELY ACIDIZED PERFS FR/ 3,309' - 3,316' & 3,384' - 3,393' W/ 2,500 GALS 15% HCL.

ECONOMIC & MARKETING CONDITIONS TO TIE THIS WELL TO SALES NEVER MATERIALIZED

01/01/00: CHANDLER & ASSOCIATES INC. CHANGED THEIR NAME TO SHENANDOAH ENERGY INC.
05/01/02: MERRION OIL & GAS CORPORATION BECOMES THE OPERATOR.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

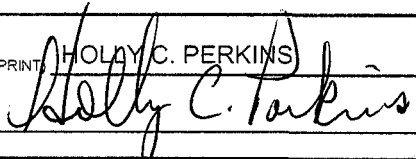
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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: U-18128
2. NAME OF OPERATOR: XTO ENERGY INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 382 CR 3100 CITY AZTEC STATE NM ZIP 87410		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 770' FSL & 684' FEL QTR/QTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 20 17S 08E		8. WELL NAME and NUMBER: FERRON FEDERAL 16-20
PHONE NUMBER: (505) 333-3100		9. API NUMBER: 4301530110
COUNTY: EMERY		10. FIELD AND POOL, OR WLDGAT: FERRON SANDSTONE
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/4/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: OCT 2007 MONTHLY REPORT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is XTO Energy's monthly report for the period of 8/1/2007 to 10/4/2007.

NAME (PLEASE PRINT) HOLLY C. PERKINS	TITLE REGULATORY COMPLIANCE TECH
SIGNATURE 	DATE 10/5/2007

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OCT 10 2007

DIV. OF OIL, GAS & MINING

Farmington Well Workover Report

FERRON FED	Well # 16-20	FERRON
Objective:	P&A	
First Report:	08/15/2007	
AFE:	653568	
8/16/07	First rpt for AFE #653568 to P&A Ferron sd. SICP 5 psig. MIRU BHWS Rig #1. Dig out braden head vlv. SDFN. 8-10-07, Notified Bart Kettle Utah Division Of Oil Gas & Mining in person prior to beginning P&A operations 8-14-07, Notified Eric Jones, BLM @ 435-259-2117 by way of voice mail prior to beginning P&A operations.	
8/17/07	SICP 5 psig. BD well. ND WH. NU BOP. PU & TIH w/4-3/4" cone bit, bit sub, 5-1/2" csg scr, SN & 102 jts 2-7/8" tbg to 3,375'. Ferron Coal perfs @ 3,309' - 3,393'. LD 2 jts 2-7/8" tbg. TOH w/100 jts 2-7/8" tbg. LD BHA. SWI. SDFN. 0 BLWTR.	
8/18/07	SICP 0 psig. MIRU JW WL. RIH w/5-1/2" CIBP. (FL @ 1,850'). Set CIBP @ 3,295'. Ferron perfs 3,309' - 3,393'. RD WL. TIH w/NC, SN & 99 jts 2 7/8" tbg. EOT @ 3,294'. Loaded hole w/50 BFW. Dropd SV & ppd to seat. PT tbg to 500 psig for 10". Tstd ok. Rlstd press. Retr SV. MIRU Double Jack Testing. Perform low press 250 psig & high press 3,000 psig tst on BOP's. Tstd gd. RD & rlstd Double Jack Testing. SWI. SDFN.	
8/21/07	MIRU Superior Cmt Service. Circ well cln w/gelled wtr. Ferron sd perfs 3,309' - 3,393', PBTD 3,555'. Mxd & sptd 220' balanced cmt plg inside 5-1/2" csg fr/3,295' - 3,075' w/25 sks type "V" cmt containing 2% CaCl (15.6#, 1.18 yield), 5.25 bbl slurry, flshd w/17.66 BFW. RD Superior. TOH and LD tbg. RU JW WL. RIH & perf 3 sqz holes @ 215' FS w/4" HSC gun, 3 JSPF. RDMO WL. ND BOP. NU 7-1/16" 3K adpt flg w/2" ball vlv. RU Superior cmt svc to circ cmt plg inside 5-1/2" csg & between 5-1/2" x 8-5/8" csg ann fr/surface to 215'. Unable to estb circion w/10 BFW. Mxd & ppd 10 BFW w/3 - 50 lb sks Bentonite, 1 - 25 lb sk super seal, 2 - 50 lb sks Gilsonite & 2 sks Granulite, followed w/20 sks type "V" cmt dwn 5-1/2" csg (4.2 bbl cmt slurry w/2% CaCl). Flshd w/13 BFW. SD w/well on vac. RD Superior. Wait 1.5 hrs for cmt to set. RU Superior. Unable to estb circ w/10 BFW. Mxd & ppd 10 BFW gel plg w/same adds, followed w/20 sks type "V" cmt dwn 5-1/2" csg (4.2 bbl cmt slurry w/3% CaCl). Flshd w/13 BFW. SD w/well on vac. RD Superior. WOC 2 hrs to set. RU Superior. Unable to estb circ w/10 BFW. Mxd & ppd 10 BFW gel plg w/same adds, followed w/20 sks type "V" cmt dwn 5-1/2" csg (4.2 bbl cmt slurry w/3% CaCl). Flshd w/13 BFW. SD w/well on vac. RD Superior. SWI. SDFN. (Mark Jones w/Utah Division Of Oil Gas & Mining witnessed P&A operations today).	
8/22/07	SICP 0 psig. SIBH 0 psig. Sqz holes in 5-1/2" csg @ 215' FS, btm of 8-5/8" surf csg @ 164'. RU Superior cmt service to circ cmt plug inside 5-1/2" csg, 5-1/2" x 8-5/8" csg ann & 5-1/2" x 7-7/8" opned hole ann. Unable to estb circion w/10 BFW. Mxd & ppd 10 BFW w/3 - 50 lb sks Bentonite, 1 - 25 lb sk super seal, 2 - 50 lb sks Gilsonite & 2 sks Granulite, followed w/20 sks type "V" cmt dwn 5-1/2" csg (4.2 bbl cmt slurry w/2% CaCl). Flshd w/6 BFW. SD w/well on vac. RD Superior. Wait 2 hrs for cmt to set. RU Superior. Unable to estb circion w/2 BFW. Mxd & ppd 10 BFW gel plg w/same adds, followed w/20 sks type "V" cmt dwn 5-1/2" csg (4.2 bbl cmt slurry w/3% CaCl). Flshd w/6 BFW. SD w/well on vac. RD Superior. WOC 2 hrs to set. RU Superior. Unable to estb circion w/2 BFW. Mxd & ppd 10 BFW gel plg w/same adds, followed w/20 sks type "V" cmt dwn 5-1/2" csg (4.2 bbl cmt slurry w/3% CaCl). Estb circion 2.5 bbls into 6 BFW flsh. SD 15 min. Well stayed full. Circ well cln. Mxd & circ a 90 sk type "V" cmt plg, 17 bbl slurry w/2% CaCl, mxd @ 15.6 ppg 1.18 yield, fr/sqz perfs @ 215' to surf in 5-1/2" csg, 5-1/2" x 8-5/8" csg ann & 5-1/2" x 7-7/8" opn hole ann w/full rets. RD & rlstd Superior Ppg Services. SWI. SDFN. (Mark Jones w/Utah Division Of Oil Gas & Mining witnessed P&A operations today.)	
8/23/07	SICP 0 psig. SIBH 0 psig. RDMO BHWS rig #1.	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: N/A
2. NAME OF OPERATOR XTO ENERGY INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR 2700 Farmington Ave. Farmington NM 87401		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 770' FSL & 684' FEL		8. WELL NAME and NUMBER: FERRON FED 16-20
5. PHONE NUMBER: (505) 324-1090		9. API NUMBER: 4301530110
6. QTR/QTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESE 20 17S 8E		10. FIELD AND POOL, OR WILDCAT: BUZZARD BENCH/FERRON SS
7. COUNTY: EMERY		8. STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/23/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

8/14/07: XTO Energy Inc. notified Bart Kettle, Utah DOGM and Eric Jones, Utah BLM of P&A operations beginning 8/14/2007.
8/18/07: Set CIBP @ 3295'.
8/20/07: MIRU cmt service. PBTD @ 3555'. Mixed & spotted 220' cement plug inside 5-1/2" casing fr/3295' -3075' with 25 sx Type V cement containing 2% CaCl (15.6#, 1.18 yield). RIH & perf'd 3 squeeze holes @ 215', 3 JSPF. Rig up cement service to circulate cement between 5-1/2" X 8 5/8" casing annulus from surface to 215'. Unable to establish circulation. Ppd 10 BFW w/3-50# sx Bentonite, 1-25# sx Super Seal, 2-50# sx Gilsonite & 2 sx Granulite, followed by 20 sx Type V cement down 5-1/2" casing (4.2 bbl cmt slurry w/2% CaCl. Unable to establish circulation. Mixed & pumped 10 BFW gel plug w/same additives. Unable to establish circulation. Mixed & pumped 10 BFW gel plug w/same additives, followed with 20 sx Type V cement down 5-1/2" casing (4.2 bbl cement slurry w/3% CaCl. Mark Jones w/Utah DOGM witnessed P&A operations.
8/22/07: Sqz'd holes in 5-1/2" csg @215' FS, btm of 8-5/8" csg @ 164'. RU cmt serv to circ cmt plug inside 5-1/2" csg. Mixed & ppd 10 BFW w/3 - 50 lb sx Bentonite, 1 - 25 lb sx Super Seal, 2 - 50 lb sx Gilsonite & 2 sx Granulite followed by 20 sx Type V cmt dwn 5-1/2" csg (4.2 bbls cmt slurry w/2% CaCl). Flshd w/6 BFW. WO cmt 2 hrs. Mixed & ppd 10 BFW gel plg w/same additives followed by 20 sx Type V cmt dwn 5-1/2" csg (4.2 bbls cmt slurry w/3% CaCl). Flshd w/6 BFW. RD cmt serv. WOC 2 hrs to set. RU serv. Mixed & ppd 10 BFW gel plg w/same additives followed by 20 sx Type V cmt dwn 5-1/2" csg (4.2 bbls slurry w/3% CaCl). Well stayed full. Circ well ctn. Mixed & circ 90 sx Type V cmt plug, 17 bbls slurry w/2% CaCl, mixed @ 15.6 ppg 1.18 yield, fr/sqz perfs @ 215' to surf in 5-1/2" csg with full rets. RD ppg serv. SWI. (Mark Jones w/Utah DOGM witnessed P&A operations today).

NAME (PLEASE PRINT) HOLLY C. PERKINS

TITLE REGULATORY COMPLIANCE TECH

SIGNATURE

DATE 1/8/2008

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JOB LOG

TIME	EVENT	PRESSURE	VOLUME	RATE
3:00	CALLED OUT		0	0
7:00	ON LOCATION	0	0	0
8:00	SAFETY MEETING	0	0	0
8:30	TEST	100	0	0
8:57	START H2O	15	0	3
9:19	END H2O	15	8	3
9:28	START CIRCULATION 2ND	120	0	3.5
9:40	END CIRCULATION 2ND	185	38	3.5
10:02	START GEL 1ST	5	0	3
10:10	END GEL 1ST	10	10	3
10:11	START CEMENT 1ST	5	0	2
10:18	END CEMENT 1ST	5	5.1	3
10:18	START DISPLACEMENT	20	0	3
10:23	END DISPLACEMENT	30	17	3
10:23	RIG STING OUT OF HOLE			
	WAIT TWO HOURS TO CEMENT TO SET			
12:15	START PUMPING TO CLEAR BACKSIDE	0	0	2
12:16	END PUMPING	0	2.5	2
12:23	CIRCULATE FOR FLUID LOSS	10	0	2
12:26	END CIRCULATION	10	9	3
12:39	START 2ND GEL PLUG	10	0	3
12:44	END GEL	5	0	3
12:47	START 2ND CEMENT PLUG	10	0	3
12:54	END CEMENT	20	0	3
12:54	START DISPLACEMENT 2ND	45	0	5
12:55	END DISPLACEMENT	10	6	5
	SHUT DOWN WAIT FOR CEMENT TO SET			
2:29	START CIRCULATION 3RD	20	0	3
2:39	END CIRCULATION	30	0	3.5
2:49	START 3RD GEL PLUG	10	0	3
2:53	END GEL	10	0	3
2:54	START CEMENT 3RD	10	0	3
3:00	END CEMENT	10	0	3
3:00	START DISPLACEMENT 3RD	30	0	4
3:02	END DISPLACEMENT	30	0	4
	SHUT DOWN WAIT FOR CEMENT TO SET			
5:40	START CIRCULATION 4TH	15	0	1.5
5:45	END CIRCULATION	10	0	3
5:48	START GEL PLUG 4TH	10	0	1.5
5:54	END GEL PLUG	10	0	2.5
5:54	START CEMENT PLUG 4TH	20	0	2.5
6:00	END CEMENT PLUG 4TH	35	0	2.5
6:00	START DISPLACEMENT	0	0	2.5

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DIV. OF OIL, GAS & MINING

JOB LOG

TIME	EVENT	PRESSURE	VOLUME	RATE
3:00	CALLED OUT		0	0
7:00	ON LOCATION	0	0	0
8:00	SAFETY MEETING	0	0	0
18:00	END DISPLACEMENT	100	0	0
18:03	SHUT DOWN	0	0	0
	TUESDAY 8/21/07			
8:25	START CIRCULATION	10	0	3
8:30	END CIRCULATION	10	0	2
8:38	START GEL PLUG 5TH	0	0	3
8:52	END GEL PLUG	0	10	2
8:52	START CEMENT	0	0	2
9:03	END CEMENT 5TH	5	4.2	2
9:03	START DISPLACEMENT	5	0	2
9:04	END DISPLACEMENT	25	6	2
10:57	START CIRCULATING	20	0	2
10:59	END CIRCULATION	10	4	2
11:00	START GEL PLUG 6TH	10	0	2
11:10	END GEL	10	0	2
11:10	START 6TH CEMENT PLUG	10	0	2
11:21	END CEMENT	15	4.2	2
11:22	START DISPLACEMENT 6 TH	15		
11:24	END DISPLACEMENT	10	6	2
	SHUT DOWN WAIT FOR CEMENT TO SET			
14:15	START 7TH GEL PLUG	10	0	2
14:23	END GEL	20	0	2
14:25	START 7 TH CEMENT PLUG	25	0	2
14:30	END CEMENT	25	4.2	2
14:30	START DISPLACEMENT	10	0	3
14:32	END DISP.	0	0	0
	CIRCULATE CEMENT AND THROUGH HOLE			
14:45	SHUT DOWN WAIT FOR CEMENT TO SET			
17:00	START SURFACE PLUG	100	0	2
17:25	END PLUG	135	21	1.5
5:45	SHUT DOWN			
	THANKS KURY AND CREW			

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JOB SUMMARY

CUSTOMER:

XTO

WELL #:

FERRON FEDERAL

JOB TYPE:

PLUG TO ABANDON

	TYPE	BBLs.	DENSITY
PRE FLUSH #1	FRESH	10	8.33
	GEL	20	8.4
12 SKS GEL, 8 SKS GILSO, 4SKS SUPERFLAKE,			

	ADDITIVES	DENSITY	YIELD	WATER
A CEMENT SKS.				
300	NEAT CEMENT, 2% CALC	18.6	1.18	8.2

	ADDITIVES	DENSITY	YIELD	WATER

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